

<210> 32395
 <211> 612
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32395

ccgcactcac catcctcggt actaccattg attgntaacg ntntagtgag tccgaccaat 60
 acntaactac actatactat atctcacnta nnnntaaaaa ccgcccgcgc gagngnttg 120
 gtagtacatc ntcgactact acagangaat tctaacnctg acgcgaggat cctatagagt 180
 ctacctgcac gcatgcatac ttgtataaag atatatgtcc gatctactat gcaacgatga 240
 agggcctttac aggatgaatc gacaacacca ataaagaatc gactgacgca agctaactga 300
 tcaaataata cctgccacgt agagcaatag tagttaaatt cccgcccccc ccgcacatcg 360
 cattgctgca aatatggagg ataaagctca gatattcggc ccaataacat aggaaactta 420
 ccatagcaat gtccaaccac tggcttacta actccatctg taccgcatac atgacacctc 480
 cgctaaatct cgtttctatc cacaaccgag tcataaccaa gcgccaataa tgcgccaccg 540
 tccgtacata acctcagtct tcgttataca aagagaccca ccctaacagc agacatccac 600
 agtctacaac cg 612

<210> 32396
 <211> 494
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32396

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 ctctctatgc agatcattct cacggacagc tacgctcaga caaactctga ctgagatccg 180
 tcatgccata agagacgata ctgccactta cagttttaat gcctcatgac atattgtaac 240
 tccccaacat gcctaattctc aatgaccacc ttacctaaat tacttcggac tatccgcata 300
 gaacgaacac tttataggct gtccaaccc caccocgaca cactacatgc tataatagtt 360
 aanatcctaa cataacataa taatggacga tcaatacctc tatatgaaaa tcacccatga 420

caccccccg acaagcgata tatctatcga aacttgact cttactcacg aaacgccatg 480
gtgtcttcgg accg 494

<210> 32397
<211> 369
<212> DNA
<213> Glycine max

<400> 32397

agctctgatc caaaatcctg actcaccata aaccttgacc cagggtgaga atgtcaattc 60
ttaccctcgg aagcaaaata aaaaaggggg agagggacaa tttccaatca aagaggaagc 120
aaaaaaggag agaaggaaaa ttttcacccc acgaaaagaa gagaggaaag ggaatttcca 180
atcaaagagt gcgagatagc aaaagaaaag aacgaaattc ccaatcaaag atgggaaaag 240
aataatgaga ggaggagaag gaaagaaact cctgacaatg atcgacagaa acagagaaat 300
ggcagagagt ctctgaccag acatatctga acaatacaga attgtaccaa tgaacaaaaa 360
aagaaagga 369

<210> 32398
<211> 409
<212> DNA
<213> Glycine max

<400> 32398

tgcttggtga gcttctatgg aggctggatc tttgagcttc aatgggggtcc tttaatggtg 60
attttccacc atggagatgc agcggaagat aaaggaaaag aggtgagagg aggcgccatc 120
cattaaggaa taagccatgg aagaaggagc ttcaccacca agatgagcct tggataagaa 180
gcttgagat gatgcttcaa tggaggaaaa gaaagagaga ggggggagca cgacattgaa 240
ggaataaaag agggagagaa gtggaacttt gaagtgcgtc tcataagaat tctctcatca 300
tagctgcaca agtggttacac atgcttctat ttatagacta cgtagcttcc ttgagaagct 360
tctttgagaa aacttccttg acaagttaca gcttagctac acacacca 409

<210> 32399
<211> 206
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32399

agcttactat aacgagaggt gtgcatgaac atatcatgcg cttaatggac ataatggctc 60
cactgaaaac cctgnaagtt atcatgtctg aatccttctt ggcacatttc attctgtgca 120
ccctatctca ataataata ctcctttccc tctcccacaa cacacataat gataaatggt 180
ctattaatga attgatgacc atgtgt 206

<210> 32400
<211> 368
<212> DNA
<213> Glycine max

<400> 32400

tgctccaaat accaacaatt gtctcttact ttgagaactt ttacaatatt cgatttccaa 60
gattcaagat gatggcacta tgtgccttgt ccaccattgt cttcctttat gcttcaaaca 120
ttttgttctg aatagctttt tctccacca atatctgac aagatcttgt gtaacaagca 180
acacctacat cttcaatctc tatattccac aatcattttt tctgccaat ttctccacat 240
cagactttgt agttgccata atcaccttgt tgaaccaacc ttttagatac aatcgccgc 300
caacacttgt cacaatcaca actatttgat taacttcacc caaataaatc ttactctatg 360
ataaaaaa 368

<210> 32401
<211> 373
<212> DNA
<213> Glycine max

<400> 32401

agctttgatc caaaatccta actcaccata aaccttgacc cagggtgaga atgtcaatcc 60
ttaccctcgg aagcaaaaaa agaaggaaaa ttttcaatca aagagaaagc aaaaaaagag 120
aaggaaaatt tccaatcaaa gagggccaca ccacagagag aaggaatatt tccaatcaaa 180
ggaaaaaaa aagacgaaat gaaattccca atcaaagagt gggagaaagc gaatagataa 240
gaaagaacat tccaaccaa agagtgggag aaagtaatag gaaggaaaga aagctcctga 300
tcaaggatcg aaagaaatca gaagatatgt gcagaaaggt ctttggaccg gacaatatct 360
gtacaataca gaa 373

[illegible]

tctgggtgtga	catctttgact	tgcttttccaa	tctgacattc	accacagatt	atgcctttctt	60
ctatttttcag	attgggaatg	cctctaacag	cacctttgtc	aatgattttc	ttcatgcctc	120
ttaagagcag	atgtccaaat	ctttgatgcc	atattttgac	ttcatcttct	ttggaggata	180
gacatgtgga	ggagtaactg	gtttcttgag	gtgtccatac	gtaacacttg	tcctttgatc	240
tgctgccctt	cattagaact	tcactcttct	cattcgctcan	caagcccttg	actttgtgaa	300
gttacattga	atccttcac	acacaactga	ctgatgctga	tc		342

<400> 32403

agctttatgg tgaatcaaac gtgattcaaa ggtgttttga tgataacaat gatgataaca	60
aatcgtgatg acaaagggtga tgacaaaaag ctcaaagatc aatcaaagaa caactaaagt	120
gaaccaagaa caattcaaga gtcccatca gaatcaagat gagttcacgt ctcaagaaga	180
aagtctagag acaagaatta agattcaagg gtcacagatc tcaagaatca agatcaagat	240
t	241

<400> 32404

taccactat	ctcttgatgt	tacaatagtt	gaccatgacg	gacttggttag	cg tactcgac	60
acgagagaat	gacgttggtg	agcacgggga	gcgaggatcg	aacagtgcta	actgatgcac	120
tactacaatt	tatgatataa	cgattgacgg	ttaacatgag	ttattcacia	aagcgatggt	180

<210> 32407
 <211> 414
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32407

agcttgtaat gttcccccaa tttatggtta tttggagtaa attntgtaaa taaatcttgt 60
 tttatggtta acactgtctc tagaacattt ccattggatt taatgatgga atctatgcat 120
 tttcaggtga aaaagaggct aagttttgca cgcaaaaagt agcagttggg ctaagcgcat 180
 atccaccgct aagcgtaaag gagaatctgg cagagcatca acatcaaagt tgcgcgctag 240
 gcgcgagatc agtgtgctaa gcgcagcagg tgccttcagc caggcttagc acaagactag 300
 cgctaagcct aattccactt actcgcgcta agcgcgaggg tggcgctaag cgcaaggcca 360
 tgaattntga gcctatttaa agcctgtttt gtgcaaaatt aggggtacaga caca 414

<210> 32408
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32408

gcctcagcaa attccttatt tccagaaggg aattctatca atagacctcc aatctttaat 60
 ggagaggggtt accactactg gaaaacccga atgcaaattt ttattgagge aatagatcta 120
 aatatttggg aagccataga aatagggcct tatataccca ccacagtaga aagagttaca 180
 atagatggta gttcatcaag tgaaagcata actatagaaa aacctacaga tagatgggtct 240
 gaagaggata gaaaacgagt acaatacaac ttanaagcca aaacctaata acatctgccc 300
 tggaatggat gaatatttca nggtttcaaa ttgtaagagt gctaacgaaa tgtgggacac 360
 tcttcgatta acacatgaag gaactacaaa tggtacatga tctcngataa atacactaac 420
 tcatgagtat gaattattta gaatgaat 448

<210> 32409
 <211> 149
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

catgttataa cacattgtta actaggaaag ggtggttctt tgggcatctc atctcaatct 120
 cataattaca tttgccatgc atagcatagc gtgccctaatt cattcatctc tatgatatgt 180
 tgtcgaagta ttgacaatca aaatttcaat tcttggaatt atggggtcga accaagcaca 240
 tgcttttaag aaaagggtttt catcaagtca aaatcaagta tggaagtaag tatgttgcaa 300
 aagttggggc agaagatgga tcgagtttac atagcttctt tggctactac caacacatga 360
 ttgagctaaa taatttaca aaattaagga cttttgatgt ccatgttcta t 411

<210> 32413
 <211> 467
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32413

ngaagaggat gctntaatgg aggacaagac agagagaagg ggggagcacg acattgaacg 60
 aataaaagag ggagagaagt ggaactttga agtgtatctt ataagacttt cattcatcaa 120
 agttacaaca agtggttacac atgcttctat ttatagacta cgtagctctc ttgaaaagct 180
 ttcttaagaa aacttactta cgaagcttct ttgagaaaac ttccttgaga agctagagct 240
 taactacaca cacgcatcta aaaactaagc tcacctcctt gagaagcttc cttgagaagc 300
 agagcttaac tacataacc ctctaataac taagctcacc tacttaagaa gagaagctag 360
 agcttagcta cacacccta taatagctaa gctcaccctc atgacaaaat acatganaat 420
 acaaaacaaa ttctactaca aagactactc acaatgcctt gaaatac 467

<210> 32414
 <211> 407
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32414

agcttctaag ccatcatgac cctcatata agcaagatca gcagtagtgc attcatcag 60
 attttgtgga ccaaatttgg cttcgcccca gcagacaata gagttgcaac cactttctcc 120
 ctgaagatac aaatattaaa tcaaatacata agaaaatttt aattcaaagt tcaaacagtc 180
 tacttttccc aaaatcatgc taaatccaca ttgattatgt taatgtgcac ctttatgtag 240

ggaaaagaga aacagaaaag aacatgaatg gtgaaaccat gtcaaaaaat gattgttagg 300
tcaatgtagt tatagaaggg ctaatggttt aaacaagtgg gatgtttgtg tattatacct 360
tccacaatat gttgcccaat gaagagctgt ncatccacac ctatcac 407

<210> 32415
<211> 376
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32415

actganagtg ngnttgagaa gaggcannat tgattatcct gctntgatga attggaagcc 60
tgaggcaaat ggagagaatg agaaggaggg aggaacccat gctgtgactg tcgttcctag 120
atggccaaat ttcccaccag ctcaacaata tcaatactca tccaatatta gcccttctca 180
ttaccgcaa ccctatcaac caagaacact caatcatcca caaaggcaac ccctaaatca 240
tccaatacaa aacaccaccc ttaacataaa ccaaaacacc aaccaaggaa gcagttttca 300
ccacagaaca tgtagaattc ccctcaattt tgggtgctga tgctaactta ctcccatatc 360
tacttaataa tgcaat 376

<210> 32416
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32416

agcttctcaa ggaagttttc tcaagaaagc ttctcaagga agctacctag tctataaata 60
gaagcatgtg taacacttgt tgtaactttg atgaatgaaa gtcttatgag acacacttca 120
aagttccact tctctccttc ttttctactt caatttcgtg ctccccctt ctttctttct 180
tttctctat taaagcatct tcttcaagct tattatccaa ggcaattctt ggcgggtgaag 240
ctccttcttc cttggcttat tccctagtggt atggngccta ccctctcttc ttctcctttg 300
ccttccgctg catctncatg gtttaaaatc accattgaag gacctcattg aagctcaaag 360
atccagcctc cataaaaagct ccacaatca 389

<210> 32417

<211> 425
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32417

 taacaacact taaggttcaa tgcaccttcg aaactatgtg ttcaactaag caatgcatta 60
 aagacatgtt aatttaattg aataataaat gcgagtcttt attaggaggt gtgattaatt 120
 catttaatat aataaatggg cggattattc acggagtagt tgaagatttg atttattcta 180
 gactattact ttttgttgaa caactgacct caataactta agaggggggtg aattaattaa 240
 attttaaaat tttcccgcta acaaattnta accccctttt aaatgataca tctgtccact 300
 cagaatgcag aagaagaaga agaaacaatc aatttaataa tggtctttta aatgcgcaag 360
 acaaagtaaa ctgcaataaa ataactgaga taagggaaga gagaatcgca caatcatttt 420
 atact 425

<210> 32418
 <211> 287
 <212> DNA
 <213> Glycine max

 <400> 32418

 agcttttcga ttcattctat gtacccttag tgggccacat tgtgtttcgt gcatatttat 60
 tctcgttttg tttacttttt ataccctcct tttgacgtgg cttagccatt ttaactaagt 120
 cattttcttg ttaacctaaa aataaacccc ttcccaccga atgggttgaat tggattatcc 180
 attaacctcg ggtaaaatca actccgaccg cggttcggcca tgccgtaccc acgttggaaa 240
 ccaaaggagg taaaaaataa tataatatct aaaaatatct ctttatt 287

<210> 32419
 <211> 410
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32419

 tganagtgtg taaccaacca ttntctcatt gtagaacacc ggtaacgtgt atactatcat 60
 tgtgatcatc tttttctctg tcattgaagg tgccacttga gctgtcaagt ccctccacct 120

ttaacacaaa tt

432

<210> 32422
<211> 358
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32422

agcttcttta acactactgc aaaaaagaca tttaaagacg gatattaaag acttttaatg 60
acagttaaca accgtcttta tatctaattgt cattgaaagt taagactttt cagcacagtt 120
ctcacaaaac catcgtagaa aaccaactct cctaagacga ttcttttgta agaaccatct 180
aagatagtat atattctaaa aagaaccgtc ttacganaaa atcatcttag aatgtatacc 240
ttctaagacg tttcttaaaa agaaccgcct tataatgttc gatcctgtag agaatgaatt 300
ctgtggctac acttactagt gacaccagtt cgtaattatg tggttacacc aacatttc 358

<210> 32423
<211> 284
<212> DNA
<213> Glycine max

<400> 32423

tgcccagaga atgaatccac ggaggaaatg cttaccacct ctatagactg gatagcgagt 60
tctaattgact cttctgttga ctgcacatat tgcataagagg atgggctgct cacctagacg 120
tcttctctgg ctgatacgat gaccagatgc acttccacta cgaatatgaa ctcttggtgg 180
agcgtagagg gaacaaatct cactgagtggt atccacgggc gccccaacag acatctgtaa 240
gggggggcta atatcgatta tatggaaagt aacttgacag gtgt 284

<210> 32424
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32424

agcttggcac tgattntgta ggtataacat cattattcat gttcttaatt tgcattgtaa 60
atatggagaa aaatgtgttt ttagtcttta tatttttgggt aaaatataat taagggttct 120

[illegible]

agcttgcttt	tggtgaccc	attcactcta	taccaagtga	acttccttcc	catccatggt	60
gcatcctcta	cctccaaatc	ttcaatccac	tcgttaaact	cctttatgct	attatctgcc	120
tctcctcttt	gacatctgcc	gacccctctg	gaagggtttct	gacanttggtg	aaatccccc	180
gaatgcacca	caatcctcca	ttatgagaac	tttntagttg	ctttatgttc	tcccatagac	240
ttctcttgct	ctgaacatca	caagggtgaat	aaatgtttac	aatatgcacc	tggtgagccc	300

tcttaagcca ttgacctacc aataagataa agcactgcct atgac

345

<210> 32427
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32427

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aaacaaatca aacgtaacaa gacaattata gttgttgttt gaataacctca cccactcaag 120
tgtatcacac aattatggct tttctctaata gaaaacactc ttgcctttta ccactctaata 180
tcccccttgag ttcttaagca attcaagaga ttatggccac agcaaagaac aattcaccaa 240
tatgtgtaag gtaaggctag agagacaagg aaaagggttaa ccaagaaaaa ggctaacctg 300
cctctaggca caatgaagga aataaaattt agaatttaag aattcaagta acaatccttc 360
atacaaccaa tatattacct tanagagatt ntttttttta aaacanaagt tcttcaagca 420
tgaaccattc 430

<210> 32428
<211> 411
<212> DNA
<213> Glycine max

<400> 32428

agcttgtcaa gtcctccagc ctggacaagt gttgttcggg ctgcttctgt caagttgtcc 60
aaggtggaca tgcttttggg tttgcatgtg aggtctaaca tgtcaggtga ggggaagcctg 120
tatatttggc aactctgtcc ttttctaact ctggagaatg cattgaagac aaactttatg 180
ttttgtctgt taatgcagtt gcgtgtagtg cacacgtagt actcttgac acgtgtcact 240
cgtggagtgg gcacgtacta aatacgtgtt gcgtgggata tgaagttgtt ttgtgggtctc 300
ctcttgccag tgaccaccgt cacttcaaata ttctatcttc tttctctoga agtataagtt 360
ttccctcacc tacacagcaa gtgtcgctgc agacgccagg tgaagctagc a 411

<210> 32429
<211> 469
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32429

tctagccaaa tggacttacc ttgaattaat tcctttgata gtccttttg agccttggtt 60

ccctttcctt gttttgaagc tcactacaag ccttaagtga aaaaccatga tattaccata 120

tccttaagga attttggagc tttggaattg ttttggaat aagtgtgggg gggtttttgt 180

ttcattggac aacttgtttt gttggctatg cttcatgatg tttttgggc catacttgat 240

gtacattgta tattgggttaa atgttggaca tgctgaatga aatgttggtt ctcanagctc 300

cacagtaaaa aataaaaaaa aatcgaaaaa aaaaaatcga ataaaaaaag aacaagaaca 360

gcaataaagt tgagtgaata agatcttaaa tggcacaaga atgatgaaac tctcggtctc 420

actcttcatt gttacatttt atctttactt ctctttattt ttttcttaa 469

<210> 32430

<211> 399

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32430

agcttcttgg actaagtaaa ctccgactct agattgagac tgattagccc aagcttttgg 60

ggtaatatgt actactcaat cttgacaaac ctctcaaga aggcacttga tctgattaatg 120

accgggactt accaaatgtc acttgctcaa gggaccacaga atcgaatccc acccaacctt 180

gcgatagggtg aaagagggaa atgtgaccat cgagtaaaca cttgaaagaa aaagtgttat 240

tatttcatta atcaaaataa ggatacatta ttccctgggt cggatggatg tgaccctcga 300

gtatcctaaa aacatcttaa caagaaaaga cctaatacatt atgctttgta tgacaacatt 360

ntaatgtgtc ttaacaaagt aacatagagt gttaaagct 399

<210> 32431

<211> 438

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32431

tcttatccaa ggcactctct tgggtggtgaa gcttctcctt tcatggctta ttctctagt 60

<400> 32436
 agctttgttt catattttct ggaggagtgc ggcattgttt cttgagaagc ctctacatgc 60
 acgagagtct ggccttggct tgaagctttt gcatgt 96

<210> 32437
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 32437
 tgcgactcta ggccatttct atataactag cgcacttaaa atgttgtgac ttctgaaaca 60
 atcttcacaa acaagtcact tgaagaattg tgactttctgg aaatgtactt tttgaaatca 120
 cccactggta atcgattagc atcaaggagt catcgattac acatcaacat atgtgactct 180
 tcgtttttaa ttgcgaaaat caaaacgttc acaagctctg gtaatagatt acaaattattg 240
 tgtaatccat gacacagata taaagtaatt ggaaaatgtt tatacaga 288

<210> 32438
 <211> 398
 <212> DNA
 <213> Glycine max

<400> 32438
 agcttttatat ttagacttta aacactttgt tttgttttgt aaacaacaat ttggaagaaa 60
 gaaagataca taaaatgtat ttttttttaa atgtcttctg ttgtacaatg gtttggaaaa 120
 gtataagaga aagcaaaaat aaaacacctc ggaccctaata cccttaattt ctctcgatag 180
 actgagacca agaaagaagg gggaaaacaa aattatctat tagaaaatga tcatatttat 240
 taaatcttaa cgacataatt atctatatatt aagaagaaat tatttttggt ctcttcatgt 300
 taaatgtttt ttgtgaataa tacaggtttt gatgatacta agattctgaa tgtgtaatca 360
 actatcattg atgtgtaatc gattaccagt aacggaac 398

<210> 32439
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 32439

tccgaatcca gagatgacag ttactctgaa caccctgcat tnttgctgng acaccaaca 60

acacaatgaa agggctaaaa tacctttcac cttttctagg gatcggcggt ccgtatccgt 120

atgactcata caaattggcg atctgtataa atttttctta actcatacaa attgttgatt 180

cgtagtcata cggattgtta atccatatat ccatacagat catcaatctg tataatcata 240

cacattgtca atccgcatgt ttttaactgtn taacaattat ttttctaaan atctccattc 300

attgactatt acaaaatctg ataattaaac aaatttgata ttttaattgaa tgacgta 357

<210> 32440

<211> 323

<212> DNA

<213> Glycine max

<400> 32440

agctttatgg tgaatcaaag gtgattcaaa ggtgttttga tgataacaat gatgataaca 60

aaaggtgatg acaaatgtga tgacaaaaag ctcaaagatc aatcatagaa caactaaagt 120

gaaccaagaa caattcaaga gttccgatca gaatcaagaa gagttcaagt ctcaagaaga 180

aagtctagag acaagaatca agattcaagg ttcaaagatc tcaagaatca agatcaagat 240

tcaagactca cgattcaaga atgaatagaa gactcaatcc tgatcaatat tagaaagttt 300

gtcccaactt tgaatatcac atg 323

<210> 32441

<211> 257

<212> DNA

<213> Glycine max

<400> 32441

tcaccactat ctcttgatgt cacaaacggt gaccatgtcg gacttggttag cgtcatcgac 60

cgagagaatg acgttggttag cacgggggagc gaggattgaa cagtactaac tgatgcacta 120

ctacaatatt tagatataac atcggacggt taacatgagt tattcacaaa agcgatgtta 180

acaaaagcgc ggaggcattc ttgctagata aaatacttac ttaacatcag ttacgcgcaa 240

gaacctttat gtctttct 257

<210> 32442

<211> 319
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32442

 agcttattcc ttagctcatg aagttattaa tgcaccaccc atagctccat atatattccat 60
 tatgtatgcc atgggaaagg gaaagttata atgatgagga tgggctaactc attagcgagc 120
 gtacgggacc ttcatactnt tgcgtcgccc cgatccttct atctctcttc acctacgact 180
 tatttagcta tgatctccct aatcctcctt acaagggcga tacaataata tgacgccgat 240
 acaataatat gactccctga taaaataaaa ggagtcttca accctctaata caatagaggc 300
 tagatcggac taacgagag 319

<210> 32443
 <211> 354
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32443

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 ttcattcaatt cttgaacctg ttgatacttc atataacctg gtcagagaca gacaaagaag 120
 gcagattaaa gctcctataa gattgggtta tgctgatctc atagcttatg ctctgagtat 180
 agaattctgat gatcaaagct cagaaccaat ttcttataaa gatgcaattt tcagaaccga 240
 cagtgatcag tggagatcag caatgcaaga agagttngac tntttcccaa caatgatact 300
 tgaaacttgt tganaagcca gtaaagcaga aagttgttgg gtgtaatgga tttc 354

<210> 32444
 <211> 406
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32444

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 agatgaaggg atgtcagctg ctggtgcaaa agaaaaagga acaccagctg ctgtggacct 120
 ggttttctctt gccctagaa aattaactac tggtcattca cattccaaca tttcctttta 180

atataggcca agttgatgac cggcctcagg ctccataaag aagtaagagc atcagatcca 240
 actctccttg tctgcacaa ggctatgatt aaagctggga agcctaggcg agaagagttg 300
 gaatgagcca taatgggttat ctatccaaag atcaagccgc caatgttcat gtccatcctt 360
 gtgactaagc catanaccaa cctagctctg tocatattca agtctg 406

<210> 32445
 <211> 439
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32445

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 ggtcttgact aaatgcanaa gtaaacagaa naacaattaa attaaaaaaa actaaaggaa 120
 aagttgggtt gcctcccagt aagtgttctt ttaatgtcat tagcttgaca agtcaaagtc 180
 ctttaagggtg gcatgaaggc cacatagaac acatcttctt tgcagtttcg ctttttagct 240
 agaaattcca tgaactttat gtattttgga agcacattcc aattcattgc aatagagggtg 300
 cggatgatcaa ggaaggatga cacttaaggc tntcttatgt tctccctacc tttcttctt 360
 gacaatcagt tgacgaggaa aggtattgat ttggagaata ctttcttggt gattntctac 420
 tggtgagtag tccccccat 439

<210> 32446
 <211> 362
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32446

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 tttggcagtt ttttacatga atgggattca gggttggtt aatcgtaagt gggacctaag 120
 gcaaatttta agaaaactat ttttagttcg gagaaattat atagtaggtc ttttttggtt 180
 acatccgagt atttgtagat tatatagtag gtctttttcc agagtttgaa tgtgctcatg 240
 aagttcatca atatctgttg tcaatcatta taccactctg ggacgatact ntagtttcca 300
 agctgattac tttgttcagt agctcatcaa tctgctctgc catttttgca cgctgagtga 360

tg

362

<210> 32447
 <211> 445
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32447

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 cccaccatgg tatagcttca atctctgacc atttactatc catgttctgt ggggagtttc 120
 tgactgaggg tcaagtaatt ccacaactcc atatggcttg acttccttca tggatgaatgg 180
 tccagactat ttagacttta atttgcttgg aaacaacttt aatcttgagt tgaacagcag 240
 cacttggtgt cctggcctan agtccttctt tagcagcttc ttgtcatgat aagccttcgt 300
 ttttctttgt acagctgaaa gactcataag cattcaatct catctcttcc agctccaaga 360
 gttgcaactt cctcttttcc cctaatagag cctcatcaaa attcaggaat ttcanagccc 420
 agtatgcctt atgttcatt tctac 445

<210> 32448
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32448

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 cacaaacacc aacactatth gtacacacga tgagttgaaa agggggcccta taccggggtc 120
 catgggaaca taaggagtgg aggtgaactg cgggtcatgct gggtcactga cttgcttgat 180
 aacagtgaac cctcatctag agttttttct tttgatagca tgtgggttgc ggtagtcctt 240
 actgccgcaa tatgtttttt cgaagggcac gataacctta gaaaccatca agagagatat 300
 gaccaccttg ggaattatca ctaanagcct tttagttcct tccgtttagg tcaactaanat 360
 agggggcacga agtgaccacg ctgcgtgcct tttaaacact gccatgc 407

<210> 32449
 <211> 441

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32449

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 gaggaacgcc ccggcattta cgcaacaagc ataatgtaaa cctttacggg tttaaaagct 180
 ctatagttgg gcctaggctt tagagttttc attctgttaa agctttgtgt cttttgcttt 240
 tgaattcata atacaaggat ctttcttcat ctgttcctgg tctctacca ttctcttcat 300
 ttgcatgttt attcttntc taaaacggca gattcgatga cgagtcccc gaaggtacta 360
 atacctgnga cccgtctatc aacttcgagc aagaaatgaa tcanacggaa gatgaaggag 420
 atgacgatgt gggacttctt t 441

<210> 32450
 <211> 369
 <212> DNA
 <213> Glycine max

 <400> 32450

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 gacgggactc aatcagacat ccgagtaaaa agttattgtc gcttgaaatg gctcagagct 120
 tcaacattca atttcgagcg tcccgatcgc tcaaggcact caatcagaca tccgagttaa 180
 aagttattgt catttgaatt ggctcagagc ttcaacattc aatttcgagg gtctcgatat 240
 attacgggac tcaatcagac atccgagaaa aacgttattg ccgtttgaat tggctcagag 300
 gttcaacatt caatctcgag cgtctcgata tattacggga ctcaatcaga catccgagaa 360
 ataaattat 369

<210> 32451
 <211> 410
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32451

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acctctgagc attttcaaac gacaataacg ttttactcgg atgtctgatt gagtcccgt 120
 atatagcgag acgctcaaaa ttgaatgttg aacctctaag ccaattaaaa cgacaataac 180
 tttttaatcg gatgtctgat tgagtcccggt aatatatcca gacctcnaa attgaatgtt 240
 gaagctctaa gccaatcaaa acgacaataa ctttttactc ggatgtctga ttgagtcgcg 300
 cactataacg agacctcgaa atgaatgtta acctctgacc aattaaacga cataactatt 360
 tactcggatg ctgattgagt cccgaatata tcaaccctcg aattaatgtg 410

<210> 32452
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32452

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 acatttgagc tttcatgcat gtgtcaatga taggcttggtc gtcatacttt tgtaattgta 120
 gctttaagtt gtatttttgt gtgatcatct ttgtaaatag caattcttat tagcttgtaa 180
 tcttattttt gttggttcta atacctttga gggggagatg aaaggaatcc aaagttgggt 240
 agaggtgcat taagagataa tagttatacc tattcctagt tatgattctt ttttaattcaa 300
 aactcagcct ttctggatta tacaatatct ttttctatct tgctttctgc ttgngttaat 360
 aacaaatfff catctcaaca acttaactta agttttttgt ctaatatta 409

<210> 32453
 <211> 388
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32453

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 attagaacaa acaataaaga aaaaatgtat gggctgggtt tatctattta tagaagattt 120
 tgagtgaat tataagattt taaagtttat gaaatcaata gtattctggt tgatgccaat 180
 agaaaccagg taaaaatcaa atccttttta tctcaacaat tataaagtc tggcttcaaa 240
 tgaaggaaag cattgctctg cctataggta attcttggtc tactgtattg taatgttctt 300

tctgtttgca tgtgaataca ttcaagtttt atgggttttg gttctttctt ttacatctca 360
agtttatata tctgtacgaa aataacat 388

<210> 32454
<211> 374
<212> DNA
<213> Glycine max

<400> 32454

agcttcttat ccaaggcatt tcttggtggt gaagctcctt ctctcttgge ttattcccta 60
gtggatggtg tctccactct cctcttctcc ttttcttcc gctacatctc catggtgtaa 120
aatcaccatt gaatgacctc attgcgctca cagatccatc ctctatagaa gctgcacaag 180
caagcttcca tcaatagtac tcgcttagcg cacagccgcy cttagtgagt tcaacaaata 240
actcaacaga gaagatgaac gcgcttaatc ttcaacagaa gcgatgaact cgcttagcac 300
agcaaggcac atagcgagtt catcgtgatt tccagaacac taggggtttc tcaccccttc 360
tcataggccc ctat 374

<210> 32455
<211> 403
<212> DNA
<213> Glycine max

<400> 32455

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atgatttttg tatcaatctc tgaattttac aatgaaatgc ataaatgtgg atatgatgaa 120
ggccattatt gttgtatata caagccactt gacccaaagc ttacctatctt attaatgatg 180
atatcatttg cgcccatctt tgagctgaat cgtaattgtc aagetgaacc ctgagctctg 240
aaattattat ctccatttac cttgcttacg ttttaggaga gcacattgcy ttacaccatc 300
ttgcccctga ttgaggaggt attttgatg gataaattta aagaagtcta aactttgaag 360
cttaattctc aaatgatcga agttgacaaa atacatacac atg 403

<210> 32456
<211> 397
<212> DNA
<213> Glycine max

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<210>	32457
<211>	452
<212>	DNA
<213>	Glycine max

tctcccncaa	ttntctataa	ataggggggag	aagtgaagtg	aataagggtt	cggtcacctta	60
ggcactttctc	tctcttttoga	at ttgcttg	aaaaattgtt	tccgtgaaga	aaatccaagc	120
cgaggcgctt	ctgaaacatt	tctgtaacgt	ttctatgagg	aatttcgcga	aggtttcgac	180
cgttctttoga	tgttcttcat	tcgttcttca	ttgttcttca	gtcttcaacg	ggtaactacc	240
ttgaaccaag	cttttctgatt	cttttctatgt	acccgtagtg	gtccacattt	ggctctctgc	300
tttttattct	gtttcattta	ctttttatac	ccncttttga	cgtgcttaag	ccattntatt	360
taagtcattt	ctcgcttaac	ctaacaataa	aataaatttc	caccgatcgt	ttgaattgta	420
ttatccatta	acttcggcta	anatgaattc	cg			452

<210>	32458
<211>	230
<212>	DNA
<213>	Glycine max

atgttagcga tatgtaaaga tgatggtact cgtacttacg atctggtccg accatgccgt 60
cctgatatcc agctgagaaa ttggcgagtg gatgaacagc gcggcattct ccaacgagca 120

taatgtaaac ctttacggat ataaaagctc tatatgtggg cctatgcttt atagtcatca 180
 ttttgctaag gcttcgagac ttttgtgtac gaattcataa taccaagatc 230

<210> 32459
 <211> 306
 <212> DNA
 <213> Glycine max

<400> 32459

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 tgttcactgc tttgctgag aataacaatt gcttgaccac aacagcgctg gatgcggcaa 120
 gggacaatgg tctttcaaat aaacctgctg tacatgaaca aacattatat catgcgctga 180
 ccgtgcctaa cgaaccagcg aagtcattgc ataattgcta tactaactat attcaatgta 240
 cctgaacaaa atgatttcca aacacgtgac cgacacatat gatgaggtgg ccagaagaat 300
 gaggtg 306

<210> 32460
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32460

acttgagtnn agccttattt ntacattcaa ttggcgagcg cctccatcta tgacgtgact 60
 ccatcagaca tgctagtcaa tagcttctga ctgatcgtaa tggctgatac cttcagcact 120
 aaagctcaat tgtcgtggat ccctgcccc ctccgccaga ctttctggta gtgagtgttc 180
 gagactcgta gtgcctcaga gatctagcat tctacttcaa gtggctagga ttattggggc 240
 acttgtgccg aaatgaccga tgataagtgc ttccgnggaa ttccttccta cgcttaacgt 300
 cggcttcacg gcgtcgccg attttgcggg attctttgaa cctgccactt tataaccact 360
 ctccctcgct ttgctccatg gtcacctga ctttccccg 399

<210> 32461
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32461

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 aggaggctta tgggtggttaag agaacaataa tgatttatcg gccattcatg ctctccatcg 120
 tgaccataac agacgtatgt atctatgtag cattgctctt tacagactca cctacagttt 180
 actatgtctt tcaaccata aattgccaat cattacagca tggcgcaatg tcattttgta 240
 tattaattag tttctactag aagctaccac cttttgttaa tatattattn taaacctcat 300
 acagtcttaa tttctcatta tggactaaag tacatgcata cagaattaac atagcatcga 360
 cttaagcatt tcatt 375

<210> 32462
 <211> 396
 <212> DNA
 <213> Glycine max

<400> 32462

agcttcaagt gaactaagga gcagataaga agttctcacc cggtaggctg aaagctagaa 60
 agaggagcct aggcaaaagt tagggaaata aaaaaggaaa aaaaaaatag gggcgtgtta 120
 tcaaaggttt tgtccaaaat ctaaattcga aagtctctag tcaatatttg aaatgacaca 180
 tggtcatgct tcattatccc aaacactaat ttatcccttg ttacccttc tgagccaaag 240
 catatttggtt ttctttttaa acaacaaca caacaacaaa aaccgtagt agcaaccacc 300
 gctgagccgg cggaagagc aaggcaaaca tcatatgcat gaggtaagct ctaggttggg 360
 caacaatgat gttaatgaaa aaaagcagaa agcaaa 396

<210> 32463
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32463

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 acttgtgagg taaatgatcg gttgaaattt tattttacaa tgataaatg agattacggc 120
 acaaacgatc ggttgaaatt tgctttacat gaagaaatga gatcactgat ggtagaagaa 180

tgagatgaag atgtgcaaag caacaaggag gaccctaataa ggtgcatata gagaattcaa 240
aaccttataa taaataactaa ccgattgaca aacgaacgaa gaacgatgta ngactgatca 300
cggtgtgat cggaagtgcc tcggcctcat tntttttctt ctttctcctt ctccttaatt 360
tcaactaaatg ctgtcaatat atgaagggtg tatccctttc ttcagcccca tcatgactat 420
ttataggana tgaggngact tgtttgatct 450

<210> 32464
<211> 320
<212> DNA
<213> Glycine max

<400> 32464

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cacaccgagt cgcagtgtaa tttatctttg tgtgagggtt atgttgagta catgtatcct 120
gagggagatt agaacaataa ttccacgcgc tcgcgcgtca tctagacatt taagataaga 180
tgtataagtg tcggcaaata gcacttttta ccatttttgc atatgtccac tatatccatt 240
aatggctaac aattcaaaag caaaactacg cacttatggg aagctgatgc atgaacgcta 300
tgacctattc aatggtcatt 320

<210> 32465
<211> 347
<212> DNA
<213> Glycine max

<400> 32465

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cataggccac tttgggatac ataagaccct tgtcatactc agagacaagt tttattggcc 120
ccgtgtgaag aatgatatcc ataagctttg cactatgtgc gtggcttgtc tacaagccaa 180
gtctacgggtg atgcctcatg ggctatacac acccttacc caccatctg caccttgagt 240
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tttggcggtt ggatagggtt atcaagatgg ctactttat accatgc 347

<210> 32466
<211> 399
<212> DNA

<213> Glycine max

<400> 32466

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 agtcgatcca acgggtaaca aattggaacg aagagaatat tactggggta tttgagtgtg 120
 aaaagctgtg atgttgggca gactttctac ctctgcccgg ttttcttggc tgtgttagtt 180
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 gggcaacagg ggatggtggg tttatgcgtg atttgtggat gtggagaaat tgtttgcacc 360
 atcgcccgac cgccatctag tagcacatgt gatgggtac 399

<210> 32467

<211> 415

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32467

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 ttatagcagc tactgcaatc tgaacgtgcc caaacgaatc acttaacatt aatagcacgt 120
 tcaccacaaa gaaaattcga ccgttgctc acacgcccct ctacattctt cattcaaatt 180
 tatatctgct tggcattcgt gtttttacca gcatttccca atagccttct gagatttacg 240
 aaatcattcc aaacgctctg cttttccatg gctacctcac caaaagaact tccgctcctg 300
 gtcaccgct gtaccatcat ctccgcacca ggaacaacca gaattcaaca tccaacccat 360
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<210> 32468

<211> 309

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32468

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 agattcctta tctcagtcga aaacttcttg attcactgaa gactacttta ccaaccattc 120

tatccttctt agaaacctna tctcaaacgc gccacccgct accttgtgat gctcaattac 180
 ctctctccaa taatttcttc tttaaagaca agtggtttctc acccttgagc tgccatcact 240
 tgattctcga atctgtaact tgccgaatat tttgtgtact actcttaaca ccaatatcaa 300
 ggatcaaga 309

<210> 32469
 <211> 458
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32469

ctcaagcttg aagggtctn canttataga gaattgagac tcctatctct gtatgtataa 60
 tcgttaccgg atgagaagat gaaaggtcta ccaccaacgg gaaggcatag gtccacttct 120
 atttcacaag tggaaaaggt cacattgctt cattatgagt gacattttta atttaattcta 180
 agctgttaat ataaaataaa atcaatggtt cagattacaa ataactcttt atacttactc 240
 nctacagtaa gtagatcccc tcccatatat atatgaagta aaaatagcaa cttttgcaaa 300
 aaaataatac tgcccacctc attattacta tattatctac atctatgact atatctatat 360
 acattacaat tgaggattca tctcacaacc catcttgtea cctatcttcc tatgcgcttg 420
 aatttttctg cattcaaaat attaaaacta gtccatta 458

<210> 32470
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32470

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 ttaatgaaat agtgaaatag gttgagcgcc tatcctttta tttctgagta aacttctcta 180
 cactaagaag agtaagttgc taaagtatcc attttcttta gagagccaaa agtaagtctt 240
 ttctctattg ggcttccaaa tatgttgaga catttctaag gtgaacaact gaacatacaa 300
 gacaccaat gttttcttgt ttctggtctt tntaattctc cttgtgttgt gtgattgctt 360

cccaatgatt agttagttt gctataccga tatttttgat aca

403

<210> 32471
<211> 476
<212> DNA
<213> Glycine max

<400> 32471

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aatatgataa cggacaaatg caggaacgat atgttcatta tgatgttatg aagagatgct 120
tatgcatgac atgatatgaa tgcattttac ggacacgaga gcccggaata ttatctcttc 180
ttacttgccg atttgggggc gcagtgcacc atgtgtatag ttaagaaggt gatatggacc 240
ttccggctta ccatgacaaa ggacgagacc aacatacaat gcatgctaga gataaaatgc 300
gggagtgcac gactgcgact gattttggag aaaaacgtgg gataaactca tcttattcaa 360
aaagttataa ctagtcaaga tctgagcgat aatacaaaact tctagtgcg ttctaatacat 420
atgggtccatt aagtctatca tatgctgaca atagctgaga agtcgcgga tcttct 476

<210> 32472
<211> 300
<212> DNA
<213> Glycine max

<400> 32472

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cagaggagtg gacaaagggt cttgtggggt atgaggaacc catatgagag aagcgaattg 120
atattggagg aattgttgcc ataaggggcc ctgcaccgac ctacagagag gggaatgggt 180
atgaagaatt gcgcgccaca agttaagatt ctgagtcatg actcgggtggg tgggttcgtg 240
actcactgcg ggtggaactc ggtgttgga gcggtctctt ggggtgtgcc tatggcgctg 300

<210> 32473
<211> 374
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32473

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attttccatc atggagatgc agcggaagac aaatgaacag aggcgagagg aggcgttatc 120
 cattaaggaa taagccatgg aagaaagagc ttcacctca agatgagcct tggataagaa 180
 gcttgagat gatgcttcaa tggaggaaaa gaatgataga gagaaataca gacgaggag 240
 catgaaattg aacgatcaac accagagaga tgttgaactt tgagttgtgt ntnanaactt 300
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 <211> 265
 <212> DNA
 <213> Glycine max

<400> 32474
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 aaactttacg gattacacgg cgaaaagtcc cagcatctca acttcgctga caagaattaa 180
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 tcatctcaca taacaccatt gtttc 265

<210> 32475
 <211> 457
 <212> DNA
 <213> Glycine max

<400> 32475
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 acaacaaatg aataaaagga aatgaaataa cattggagat aaaataaacc ctaaagcctc 180
 ttcatatacc gaagcatcat gggcagcatt tgaatatgca agagcagtgt ttccacaata 240
 gacatcctag ttgtgaagag agtgaggatg aaagagaaga gaacaaatga gaaagtgaca 300
 ctacagtata gaaaaaaaaa ggagaaagca agtacaagaa gagaaggaga atgaccaagg 360
 ataagagaga agagaacacg gattagaacg agagagatag agaagacaac tatcatggaa 420
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<210> 32476
 <211> 249
 <212> DNA
 <213> Glycine max

<400> 32476

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 gttggagaag taaacaatgg gggaattcac tctgctaaga cttaaaatga ttctgaccca 180
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 gactaaatc 249

<210> 32477
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 agaaggcaac aactctcgtg ttttacattg attacatgcc ttacagttaa tcgatcgcac 240
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 <211> 226
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<400> 32478

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gtctctcttc tccctctttc aaaagccccc ccgaccccca cctgaatcct ttggtgtctc 180
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<210> 32479
<211> 290
<212> DNA
<213> Glycine max

<400> 32479

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accattaact gaccccatg aagctcatca gatacacgct ccatataatc cccacaagca 180
tgtttccatc agaatgtcca cgtttttata gggctacact cccatgcctc tctaggacta 240
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<212> DNA
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<223> unsure at all n locations
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acttaccgt gatgatcgaa gaacgatgaa 90

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<223> unsure at all n locations
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acatgcgttt tagtctagcg atatctgcat acttgcatcg aagagatggt tctctcattt 240
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 tctcactcct gataaataag ggtctgtatt gagngcatt cagaggccat gtgacctctg 480
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 <211> 392
 <212> DNA
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<400> 32482
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 accacgaggt actcaatcaa ctaaaacgcg cctcctcgc taacactgag ttccagacac 180
 agaagaaagc tattcaagct caccagagg atcacgctca cttcaccatg gccaatgagc 240
 tcattttctt aaagaatgcc atctggattg actctagcaa tccattcatt cctgcattag 300
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 gataagctaa aataacaaat tcaccttagc atatataaga gatagattgt ggagaagcct 180
 tcaatgtagg aagagcattc ctttggccaa tgctgcccgt gaggccttaa taaacgcaat 240
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<212> DNA
<213> Glycine max

<400> 32484

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<211> 284
<212> DNA
<213> Glycine max

<400> 32485

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<211> 402
<212> DNA
<213> Glycine max

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acgataaata ctttcaatgc attctagcct acttatttat taactttttt taattgataa 180
taatatagtt tggtttaata tatacatggt tagtatgtaa atactaatat ggtgtgacgt 240

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 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
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<211> 454
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 ccangagcgg atccaggaag gttccagatt aggataccaa gtgataggcc gccagtgcca 300
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 <212> DNA
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<400> 32491

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 <212> DNA
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 actccttttc accaatctga aaagtcttgt ctgacttctc ttcacacca aacgacacag 300
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<210> 32496
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<400> 32500

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accactcct caggtttggg tntttaggga aaaacaccat aactaaacgc gccacaaggc 120
atccctatcg caccagatcc aaatctcaac gatgggtgat caagaggaga cacaggaaca 180
gatgaaagcc gacatgtcgg ctctgaaaga acagatggct tccatgatgg aggccatggt 240
aggaatgagg cagctcatgg agaaaaacgt ggccaccgct gccgctgtca gttcggctgc 300

<400> 32503

agtaattcga tgatatgtat atatatatat atatatatat ttaattatag cagtactcat 60
 aaatgtgtca tgtagataaa tattatacat atatatatag aggtgcataa aagtaactaa 120
 acacattaaa tatatatgta agtaatcaaa tgtattatga acattaatat atatatatata 180
 aagtgcgtag cgtattaaaa acattaatat ttatatattg acaccttaac ggaagcatat 240
 atatttatat attaaacacg ttgccgtaaa caatttaaac attataatan tctcctccac 300
 atacacattt gaaataataa cgtaaacggg tatatatata tatatagata tatatatgta 360
 tatatatata tatatatgta tatggacata tatacagtag gagagcatat tatacatgtt 420
 gctatatata tagtacctgc ctcaatacac acctccatat ttccn 465

<210> 32504

<211> 395

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32504

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 aacaccacat tctcactttc taacctaggt taactctacc cttcatctct aacagtttcc 180
 ataggcaatt tcagcacata aacatcacia gcacatcat gaaaacccta aaactgaatg 240
 ggtatgttta actcatcaa acatggcaag ttcaacatgc tttcaacaag tttcttcaca 300
 aataatcatc ataaagcaga aacctagcaa gactacccat catatctccc anaaccccat 360
 acccagcann atcaaaggag aaagaagtcc accca 395

<210> 32505

<211> 393

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32505

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 acctggagat atgtcgcggc ggtcaggaga ccttgnngac gtcaggtggg gtgctattgc 120

ccaaaaccaa gcttgaccaa tcccgtccca acccgggcat agtcgggtcag tgagaacctg 180
 tgatgtacct aagcacgtga gctcctagca gtcaacagat aaaaggaaca aagaccacaa 240
 agcaaggagg cttgtggtgg ctggccagct gtgaactttg attgaccgcc cgccatggcc 300
 tcggtaatcg attaccaagg gtgggtaatc gattacaagg ctaacaacat gaagacagga 360
 ggctaagatg gtctctggta atcgattacc acg 393

<210> 32506
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32506

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 tatagagtca cctgatgcat gcaagcttgt ttgataaaga aatgacgacc acgaagataa 120
 tgctggagta gtcttcacat gccaatatat taatggaata caaatgtac catgaggcga 180
 gctggcacta ttacattatt atcgcggtat catgacttat ttctgcccc caccaccacc 240
 ctactttttt ttaatctttt tcattaattt cattctcatt tccttagtgt tccgcttcta 300
 cctctttctt cattttttct attctcaaac tacgtgtctt caaaatttgt ttactttcct 360
 ttgtaatact actattaaga tctgtttctt gaatattgtc acgtctgctt ttttagtaca 420
 ctcatacttt catttctgat cctccacca ctgtcc 456

<210> 32507
 <211> 404
 <212> DNA
 <213> Glycine max
 <400> 32507

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 ttccttcttg gaagggtcta acgatggaca aatatgatgg tgtcgcggtt ccggataagt 120
 agttggatgt ctaccttacc caaatcaact atacataagc gatgactatg ttttatgtcg 180
 aatcttccaa acttcattga agggcccacc attgagttgg ttacaaaaa ttcctctgta 240
 cttcatcaat ttgttcgaca ccttgataac ccaattcgac acttagtttg ttgcaagtca 300
 accctatcac ttgacttcta tggcactggt caatattagg caagacaaga agaaacctat 360

tagaatgctc aacgaaaggt tcaacaaggt cacccttaat atta

404

<210> 32508
<211> 458
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32508

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tgattcaagg tgttttgatg ataataaaga tgatgacaaa aagcccaaga gaatgacttc 120
aagattcagt caagaacttc aagattgagt caagaacaat tcaagaatca agtttcaaata 180
ttcaagaatc aagaatcaag aataatcaaa atcaagattc aagaatcaag aaaagactca 240
atcaagataa gtactataaa gttnttcaaa acattgagta gcacatgaag ttttgacaac 300
ttctcactta ccaaagagtn tactctctgg taatcgatta ccagaatgca gtaattggat 360
accagtgttg tcaaaatggt aagattttca naattcacao tgaagagtca catctgttga 420
tgtgtaatcg attacacctt aatggtaatc gattacca 458

<210> 32509
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32509

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cacacgcagt tctgaacctc cttagggttt tgactaatgt ccactttggt cttcttttta 120
aattcctata caaaatgggt caccattccc tttcaaagtc atgtccacct taagtgagt 180
tttccagcaa tagccttata ttggaatagc ttatccttga tcgttagaag tacaactgcc 240
aaggtgaaac atgaaaatgt tttgctctcc aacgcaatta gtcttggtgt caaggccatg 300
tggtcagcaa ctactgaata taaagcagcc tcaatagcag cggcttctct taactctcct 360
tcaaccatct ttatcttggt ntccaagtag tcaatcttgt tgtctaaaat 410

<210> 32510
<211> 393

<212> DNA
 <213> Glycine max
 <400> 32510

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 taagacttaa tctatcactt atgcctaaac taacagcatt caatacaaat gtcatatctt 120
 ttaaaacggt tttgacattg taaaatcata gaaccaaaaa cctagactaa tcttcaagac 180
 ttcaaaatct ttgattcaac aatctcccc tttttggctt tgatcatgcc aaaccaaag 240
 atgtgtattg atattctcct tgtcctttta cctgttctac atcatgctca acaaacatcg 300
 cagcactatc tagtcatca tagcatctag gtacatacac aatcaatcat atctttctcc 360
 cctctttggc atcacacaag caaaaagtga gta 393

<210> 32511
 <211> 251
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32511

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 gtgcgaatca tatcaatgga agacaaaagg taacaagaag gcgggcgggc acttatcana 120
 ttatcatggg gatataattat ttatatccct cacctttatg atatactttt ttttcatttt 180
 ttttatcaca atcatttttt cttttctttc cggccaagt tttttcttct aatagaccat 240
 tttttttaat a 251

<210> 32512
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32512

tgcatgattt acattctccg cttttctcaa gcaaattctt aattcttctt gacatcatca 60
 aaatcttcat gatttacatt ctcccccttt ttgatgatga caaccacctg taggttanga 120
 gcaacaacaa agaaaaaata tctatttgca tatagtttac tcccccttgg ttttgcaatg 180
 attgcttata tgagacagtt gaagatttca ttttttcat atgtaaacia tttctcataa 240

acaatagatc atttttctta ctattttata ttttatcttt ctcttccct tcgccaacat 300
 caaaaacaat catgaataga gaggagaaag atgttaccac ttgttgcaat gtatgagaat 360
 caagtgatac caaaaggcat taaaacaatc attcaataat aatgaagcac aaacaagtac 420
 aataacacat caatcaaaca caatcaaat 449

<210> 32513
 <211> 388
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32513

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 agtattgact tatgtcagac aaaaatctat taccacatta ttagttgtat aattaagtac 120
 aaaagtgaga ggaatttggg tgctatcgca aataatctta ataccaacaa gtgtccaaaa 180
 gttaagaagt aaggaccact ctaaaataat cgcgccatac ctatatcaaa catgcatgat 240
 gtacctgtct ctataagctg gcattgccat gtcacttcaa acactttntg ttacantttt 300
 agtttctttc aaaatttata attaaatata aataaaaata ctacaataac taaatatata 360
 aatgatagta ttccattaac taatatta 388

<210> 32514
 <211> 412
 <212> DNA
 <213> Glycine max
 <400> 32514

tgagctgacc gttaagcgag gtgatgtgct ggacttatct tgtacgctaa gcgagttgtc 60
 ccaatcttca actttttctt cacagctttt tctttacgtt ttttcatcaa tcttcctata 120
 aacacttgta atttttcttc ttttaataac tgttggtaaa aaattaacat gatattaaat 180
 tcctcattat ttcattaaaa acaatagtaa attaaaagaa ttctaatacat tattagtcaa 240
 gatggactat caattatact taacattcac agttatcaca tgacctgcac cctccaacac 300
 catgattata acttgctgtg tagttgtcaa taatatgact gttgtcgata tccattgtgc 360
 cacaaccgac attgtgacca tcgtcatgaa catcagtgtc gtaccaacat ga 412

<210> 32515
 <211> 344
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32515

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 gtaattcgaa cttaatttat cttttaattc gttcctaaag atagatcgcc aaatctgttg 120
 ctaactgcac attaattctgt taaagactca cagattcatg tgtccagtat tttcgggcaa 180
 gatgtcctgg acatcgatg cgacattcgt ggatcctgca gcttcaattc ttcatttgac 240
 attttatctt gccttggtgca ttgtgcaagc caatctgact ccttgacata acgtggacat 300
 catgtgcagc aacttcagct ttccttcaat gtctaagtgc ttat 344

<210> 32516
 <211> 399
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32516

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 catctccttc ttactccaag ctcttatcca tggcctccta tggcggcgag cttnttctag 120
 actcatcttc tccttgaagt ggtgtctcct ctctcttttc cttctccatt ccgccggcat 180
 tcattctcca agaagaaaag gaatccattg atgaagaaga tcctacgcct acaagctcca 240
 atggagctta caccatgtgg tatcaagagc atctccatct aggggatgtt ccttcgctcc 300
 ctctatcttc tgtccggaga aatctctnta attacttggg cttcatctta ttctccatgt 360
 atatcctcca ttatcttgtg agatggcgct gtctagagt 399

<210> 32517
 <211> 295
 <212> DNA
 <213> Glycine max

<400> 32517

agcttgaact tccggctgtg cgatactggg gaaaaattgt ggcacagtag aacttgaata 60

00507 = 00507

atcctccacg gttactcttc ttggctcttc agccatgatt gggctcttcaa caagttctat 120
 atgagaatgc cctgcaatag gcaactagaa gatgcctcgg aagatcgagg ttattcttct 180
 agagttgtcg atgcttctaa atcctgcaaa aaagttctga ttctctctga actacgcctt 240
 ctacaagtgg tgttaatctc caaatcaatg ggaatcaaat cacctacagt ggatc 295

<210> 32518
 <211> 326
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32518

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 ctgacctaa gtagataacc cctcaatctc gaaggcaaag cttggagaga ctaacagggtg 120
 taaatgactc agtatttata taatcgaagg atacacaatc cctcagtctc aaaggcaaag 180
 cctataaaga cgaacagggtg cacatgactt ggtatttata caaccggagg gtatatagcc 240
 cctcagtcat gaaagcaaag tctgaagaga ttaaagtgtg aagaatccca tntacacaac 300
 tggatgtaca tcagccatca gtcttg 326

<210> 32519
 <211> 369
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32519

agctttgaga cgcattgtgaa ccttnggcatt catcaaaaca ttcagcttga tcctttgtct 60
 acaaattctct ttcattggcct accgaatgaa gacctatag ctgccttgc cacatacata 120
 gagatctgca aactgtgaa gatacccgac ttccagaaga tgccatcggc ctcaacctat 180
 tttcttttct cttggccgat gaatcanaaa gatggcttca ttcattcaag ggggaagggtg 240
 gagatctcat cattccacca attcctgat gaatcattaa gtgaagctct agaccattta 300
 tatggcttac tccagaagac tccaacctat ggggttcaacg agcccggtta gctaaatata 360
 ttcattgat 369

<210> 32520

<400> 32520

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tgcaactttc agaaccatgg gagaagatga gtgaaggatc tatagattaa attcttgaga    60
caaaaggggtt agggttgaga gggggtgggc tgctgcacac aaaagaaaga taatggaagt   120
tttgag                                     126

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<210>	32521
<211>	409
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      32521
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tactggtaat cgattaccaa aacattgtaa tgcattatag ctttttgaaa ataattggaa 120
cgttgtaa atcaatttgaa aacttttcga aacaattttg ctactggtaa tgcattacaa 180
caatctggta atcgattacc agagagtaaa aactcttttg taaaagggtt tgtcaaaaac 240
tcatgtgcta ttcaaatttt tgaaaaactt tttaatactt atcttgattg agtattctct 300
tcattcttga atcttgagtc ttgaatcttg atcttgattc ttgagatctt gaaccttgaa 360
tcttgattct tgactctaga ctntcttctt gagtcttgaa ttcttcttg 409

<210>	32522
<211>	435
<212>	DNA
<213>	Glycine max

<400> 32522

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tttgtttgat tgcacagtga ctaacactca atcgtattac agacagataa acaatcttag 120
cacgtactct tttctctcaa aaaaatcaag gtattttgag agctattttta aacttcaaaa 180
gaatttacat aaagtgattt ttacaaaaaa gaatttgaat gagtgcttta gttgggttctt 240
catgtcttca acaagtgttc aatgtctcta aatggataga tttctcctct taaagctcgt 300
ttgaaaaatg tggcattggg catttaatgc ttgattgcta gcatgtactt cttcaaaaac 360

cactattctt tgctaacatg ttgaacactt caacaagaaa tcacttcctt ttgtgtcaga 420
gcatgtttgt atagt 435

<210> 32523
<211> 285
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32523

agcttatcgg attatggngc acccgtcatt tgtggtacta ggtggcgatc gggcgatggc 60
acaaatcaac tatcccattt ccacaagtca agcataagca caccatcccc aattgcccac 120
ctttaaatnt agctcacgtg cacgttgctc cttctcctca ttctctcag ccccggtcc 180
ccatcaaccc ctccaagctt tcacaatata tagacaattc aaattcattt gtcataaac 240
taccttaaac aaagaaaaat aaagtggagg cagaatcttt gcaca 285

<210> 32524
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32524

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aaatcttcat gatttacatt ctcccccttt ttgatgatga caaccacctg taggttagga 120
gcaacaataa agaaaaaata tctattcgca tatagtttac tcccccttgg ttttgcaatg 180
attgcttata tgagacagtt gaagatttca tatttttcat atgtaaaca attgtctcat 240
aaacaataga taatttttct tactatttta tcttttatct ttctctctcc ctttgtcaca 300
tcaaaaacaa atctgaatag agaggagaaa gatgttacca cttgttgcaa tgtattagaa 360
tcaagtgata ccaaaagaca ttaaaacaat cattcaaatt taatcaagaa aaaataagta 420
caataacaca tcaatcaaac acaatcaaag acaatcaatc atc 463

<210> 32525
<211> 294
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32525

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gacctagaag acaagtcacc taagcagggtg agggtcagtg gtcattctgat caaatctgat 120
gaagatactt tgaacacttt tctgaagact cagcgattct ggaagagggg gaaaatcttt 180
gtgcttattc ccggtttgca ctctgagggc ttgacccca ngagttggct gctaagcttt 240
gcacccagg gaggggattt tagctaaatg ttgatgggtc gcctttgaag attt 294

<210> 32526
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32526

tctacttagt aaatataaaa actaaacaac aaatatttac aatcctacca aacagaacca 60
tacattggga gaaatatata catttttgaa aacttttata tacaaaagtt agtcgtaaaa 120
gacgattaac agttttcttt tcagatcttt ctattctttt cttgaaactc gggcaatcaa 180
ctctcagatg tcttggttga ttacattcat aacattttgg aagagaggat gaattctctc 240
ctctcttctt tggttntaaa tttgatcttc tttgatttgc tttgtttctt aaaaatttcc 300
gcacctcttt acgaaaaact gaaatcatca tctctctcta tttcattcaa atcttcttta 360
tcaattcctt attgaattga agatgaagct ntaagtgtga ttgctntctt tctcttatca 420
ttctcctcat gtcgattcag tctcat 446

<210> 32527
<211> 410
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32527

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gcacaacaag tttccacat ccacaatgcg cgcataaacc caccatcccc tggtgcccac 120
ctccatctaa gctcacgtac tcccatgtac ccatatcctc atttctctca acaccgggtc 180

005707 5072450

cccatcaatc ctctcaagct tccacaacat ccaagcaaaa caacattcaa actgcacaag 240
 ctatcacagc caagcaaaac agagcatagg cagaaaactt tgccaaaaca ccaaccaaat 300
 cacagctttt ctcaacttaa gaccccagta acaattcctt cgttctgggt cattaaccgt 360
 tggatcgact cgaanattnt actggaagtc tctaatactt aagcctacat 410

<210> 32528
 <211> 465
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32528

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 gcatttctct ctctctcgaa attgctgagg aaaattattt ccgtgaagaa natccaagcc 120
 gaggcgcttc cgtaacgttt ccgtgagaaa ttacgcgaag attctcgacc gttcttcaag 180
 attcatcggt cgttcttcgt tttcttcaat cttcaacggg taagtacctc aaaccgagct 240
 tttcaattca ttctatgtac ccgtgggtgt ccacattntg tttcatgtat tnttattccg 300
 ctttcattct cttttatacc cccttttgac gtgcttaagt catttattta agtcatttct 360
 cgcttaatct aanaataaaa taaatttcca ccgacgtttt gaatagtatc atccgttaat 420
 tntggctaaa atgaattccg accgttcggt cgtgccgtaa ccacg 465

<210> 32529
 <211> 372
 <212> DNA
 <213> Glycine max

<400> 32529

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 actcttagca aacaaagaaa gagegtctgt caactgggtc cctcgatgga aagaaggaag 120
 aaccgggggt cttatttcat gcacggattt ccgaatgttc ccttgatggg gacaaggggt 180
 tgcacagtt acaatcctgt tcttgctata aggcaacttg gctaccctat gagaggggca 240
 ccgctagagg aagagctcgc gcctatcatt tcacgaggtt tcaataagac caacgtggag 300
 acacttcaga aggtccgcaa ggcattgggag gtggtgcaaa agaaggacaa agaactcagt 360
 ggcagtaaca at 372

<210> 32530
 <211> 377
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32530

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 actggtcctt ttcttccttg agttcactat tgctacccca tagagctccg cgaaatttgt 120
 tccgaccata ctcttccttg cgagccctct tgggtctcttg ttcaaaggct cttgcggcaa 180
 ttgcattctc ttcccgtaac ccggcacact ccttcccaac gtgtgtanag gccaaactga 240
 acttctcctt ggcaagttnt gcctttccta actcgctnnt gagagccgga cttcttcgtc 300
 ctcttcagtg gcttaaagct ctctttgctg acgactttta acttggcgag ccaatctaaa 360
 cctcgtagat gaacttt 377

<210> 32531
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32531

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 tagaaatgtg acctaagcgc ttatgccata atgctcctga gtttgtatta tcaattctac 120
 gcttagtacc atgcaatgag aattacacac gaagctacag tatcaagtaa atatagatta 180
 tcattaacca agagtgaacc agttccaaca atatctgaat taaaagacaa cctanacaca 240
 ttgtttccaa atgaccacaa ataaccgaat tatgtccaaa taagaaactg ataccaaatt 300
 ccgtctaaat gacggcacia caaaagtgtc tttcagatcc aaataaaaaac tagtacataa 360
 taataatcta aagtgccta tagcgtccac ttccaccgat ttacca 406

<210> 32532
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

<400> 32532

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ggagcacaat aggtcgcattc aaatataatt taaaatgtac gctcaacatc ggtttttcaat 120
aaaaaactga tgtaacaaa ttgatgagaa cgtaaacatc ggtttttattc aacaaaccga 180
tgtaagggt gtttccttaa catcgatttt ttgaaaactg atattaacgt cgcttcgttc 240
acatcagttc tcttcaaaac cgatgttaag gaatacacat tatttanaat taccacccc 300
atttacgtaa catgcggtnt gtgaaaaacc gatgttaac cgccgatgtt aaatctgggt 360
cttctagtag tgaaccatac catcaatatt tcagttgatt gataaaata 409

<210> 32533

<211> 381

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32533

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tataaagtta ttgtngttg aatgatctca gagcttcaac attcaatttc gagcgtctca 120
atatatgacg ggactcaatc agacccccag taaaagata ttgtngtctg aattggctca 180
gagcttctac attcaatttc gagcgtttcg atatatgacg ggactcaatc atgcatccgt 240
gtaaaaagtt attgtcgttt gagttggctc agagcttcaa cattcaattt caagcgtctc 300
gatatatgac gggactcaat cacgcatccg agtaciaagt attgggtcgtt gaattggctg 360
agagcttaac aatcaatttg a 381

<210> 32534

<211> 457

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32534

tcggctcttg atacaggttc tatcctatcc tattattttt ctttgtaatt tgtctagggt 60
cgtgttttgt ccttgttttg ttatttgctt tcttgtttac atcttgtttc gttattgttt 120
gcgtcttgcg ttctattatt tgcgttcttg ctcttgtttc ttgtgtcttt cacactctgt 180

gtccaaaaaa aatcgcaaaa aaatttgaaa aataaagtgg gtgtttgatc tttgaacacg 240
 aaattgaggc atttacaggt atttttttgg anagaatatac gtggatcaaa ctccctattc 300
 tacattctct ctgaattctg agcattttga tatatagtgt gcctcagacg gacaaccgta 360
 gcaaaagtta tgagcattcg aagtttactt gccatatctg gtatcttatac tggatatctta 420
 tctcgtatcc tatctcgat cttatttgct atcatat 457

<210> 32535
 <211> 400
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32535

agcttggttt gaggtactta cccgttgaag actgaagaac gtcgaagaac ggtcaaaaac 60
 cttcgcgaaa tcattcacgg aaacgttact gaagcgctc ggcttggatt ttcttcacgg 120
 aaacaatttt cctaagcaaa ttcgaacaga gagaagtgcc taaggggctc aacccttttc 180
 tacttcactt ctcccctat ttatagaaaa ttgggggaga agcttgccac caagctcgcc 240
 caggcgagca gggttgcttc ctccagaagc aacagccttc tggaggaatc ttcgggaggg 300
 cccaagtggg cctggttgct atttgacccc ccacttttac taaatacacc accttgccct 360
 tttttggaga tntctttttt tgaaagttac ggaaacttac 400

<210> 32536
 <211> 430
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32536

tcttatccaa ggctcatctt ggtggtgaag ctccctcttc catggcttat tccttaatgg 60
 atggcgctc ctctcacctc ctttcctttg tcttcgctg catctccatg gtggaaaatc 120
 accattaaag gacccattg aagctcaaag atccagcctc catagaagcc ccacaagcaa 180
 gcttccatca cacggaccta gtacttttgc ttacctttgg ctctggactg ggctcgctta 240
 ttggtcgacc atgtgtcgta ggcagtgtc taacctttnt gtggataagc tgcgcggctc 300
 tgcaggtggc gcggcgctc tgttgccgc tgctgtccaa ctccaagctg ttgtggtgtc 360

ttgccttgcg cctgcttggc ggccaatact tcttgatgaa agctcggcta gtatggcgcc 420
tgatgacctt

430

<210> 32537
<211> 442
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32537

ttgcgtagcc gctcttggtg aagatataat cacgcgccac atatccactc ttatgactag 60
catatttggg gacactctag agacttgaca tgaacatacc ttccaacacg atgatacgtt 120
cctactgtac tgtttgagtg acgactgaca aggaccaca caccggacct ggatgatact 180
tcatacacta ctttatgata agtgagtata tatgataata gtcttgagcc cgacgcaaaa 240
gataaactg cagtattatt gcgcacttac taacttcacg gaccagatat cacgcngata 300
acaccatcag acaataattc caaccaagag gaaatcatga ctacacatag cagacgcaat 360
aacagaccag aacgcaacac acacaggccc aagtacctaa gtgacttctt ataatgacca 420
ctggagatgc aaccccgatc cc 442

<210> 32538
<211> 282
<212> DNA
<213> Glycine max

<400> 32538

tgcttctaca gttttgtacg atatatcagc caattgactc tgtgtgtcat taaactctaa 60
tatgcactcg cctttttgaa catggccttg atggatccga cgccttatcc aatatgcttt 120
gctctagagc gccgaatata atttttggat agattgatcc ccttcatatt gccacaacgg 180
atacgcata gtacaagctc tcagccatta tcagagagtt gctgtctcat ccaaatagatc 240
tgtgcacata aacttccagc ataaatatat tccgcttctg ca 282

<210> 32539
<211> 400
<212> DNA
<213> Glycine max

<400> 32539

gaatgcccta agatgatgat ttgtttggaa actggtatta tttaacatcc ttttttctca 300
 atgtgactat gcaagtcatt atgtcagcaa atattcacac ttttttaaaa tcttctcttt 360
 ttgcaaagtg aaattcactt ttggcttgaa gcacatgaaa aatatgg 407

<210> 32542
 <211> 396
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32542

tgtagaatgg ctagacatga tacatgtcag ggtttggttt ggttcaagga taaaagggat 60
 gcccacatt atttccatga cacaatgca aaaatgatga tttggaaact ttatgcaaaa 120
 ctggtcatgc atgcacctat gtggacactc aagtgtcaaa ttttttatgg tcatgtgatg 180
 ctaagggtca cgactcattt cctctatttt aaatcaaccc aatgtttcca aaatatgttc 240
 ttttatccat ttgtgcattc atccgagtc atttcgggcg tncggcaa at ttcacagcat 300
 tacccttcag gtgtagacac attttccaaa aattgggtat gatcaatgaa tttttttcaa 360
 agaacagttg gaagtcattt cttttcaaaa gcatgt 396

<210> 32543
 <211> 405
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32543

agcttgatag cacgcagaga ttaacgtcgt ctcatgcgcc ctctgctcatt cgcggccgac 60
 aagcccgttg acacgcggag atttacataa tcttccgcgc tcacaagata tgcatactg 120
 acttttgagt cacgctgacg ggccgaatac ccgagtgggt atccgtataa acctttttgc 180
 tatctgtaaa acgaaaagcc tgatagcacg cagagattaa cgtcgtctcc tgcgccctta 240
 gtcattcacg gccgacaagc ccgttgacac gcggagattt acataatctt ccgcgctcag 300
 aggatctgtc atactgactt ttgagtcacg ctgacgggca gagatacccg agtggttatc 360
 cgtataaaca ttctttcttg ctatctgtaa gacgaanagc ctgat 405

<210> 32544

<211> 451
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32544

tgtaatcaag gaaatcatgg ttattgcctc ccatatacaa ttccagagag gccatggngg 60
 agggaggaat gaagatgatg ggtaattcta gccacttcg gagactcgag ttagttgggt 120
 aggggtcaaga aagaaattct gagagagaaa gaatgaagat gataacgagg aatgaagacg 180
 aagatgattg gtttcggaac atgcatatct atactgaaac agaaacaaat ttcttgtgat 240
 tcagcatcca atccattctt ttcttttctg ggagttggaa gatgcagccc acatgccgga 300
 natgaattac tatcactatt cttanaccag tagtgtacca tttcattaca atttctggca 360
 tctatataca cagcctaac ccacctttgc ccataccctt ttcattgttg aagaggtaac 420
 ataccaagct atgcttgagt gggttacttt c 451

<210> 32545
 <211> 506
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32545

cggnccggcgg gntttgagac cttgccanta cccacacttt tgataatnna ccatctgagc 60
 tgtgnanagg antgaagcta tgataccacc tgttgacttt gtgggcttac atatgaataa 120
 gaaagggggg ggggttgaat taagatttct caagctattc cctccgtat tgagtttgct 180
 tggatctcga cccgagacct cggaggcctt gtaacgtgaa ttcttaaagtg tgatangatc 240
 tgcccctacc ggtagaagct tttatgttat ttatatgtat gaagtgtctg gactatgata 300
 tgcacacgag attcttatat tgggtcggca tagtatcttg cgtaagtcca aacccaaga 360
 gatctcgctc ggatgtgaac attataacat gtaatttaaa cctattgaaa cagacgacga 420
 aaacttttct ttgtctcgga gggcttcgaa aatagaggga ggtgttgacc acgtttcgaa 480
 cgatgagatt acaagagcgt ccgtcg 506

<210> 32546
 <211> 135
 <212> DNA

<213> Glycine max

<400> 32546

gagcctatgt tcccctttct ttgatttgaa gctgattacc agccttacgc gacaaaccat 60
gatatcacct tacccttaaa gaatttcgga gctctggaat tgctttggga ataagcttcg 120
gaataagcgt gtgtg 135

<210> 32547

<211> 425

<212> DNA

<213> Glycine max

<400> 32547

tgctgtccg atgcagcaga aatgatggcc taagtgatgt tgtggagtgg ttacgagccc 60
gaatgggtgt aggcaaggac aacggcagaa taactagcct gataaatgcc taagagaaat 120
catgggaagt atgggttaag ctataaacc actcacgcag atataaacag aaggattgag 180
ggaccgcaac caccgagtca agtcttcgag gttgaaacaa gaaggcgaag gaaaccacc 240
ctgccacata agtaggagct ttataagcgt ggggtctaggg gacgaacgac aagttgttgc 300
aatatacgaa gataatgttc cgagtgcatt gaatctgga cgaccgtgct ctctaattc 360
tcgactaaga aaattgagag tggaggagcg cccggacatt cacgcaacaa gcataatgta 420
cacct 425

<210> 32548

<211> 306

<212> DNA

<213> Glycine max

<400> 32548

tgatattatt attatatcga gtgaaaggga caagctggct gtggatgtgc tgaatatgga 60
tttggtagcc actttctaag ttcagcatct ttttagaatt tacgagagca ttcgttgaaa 120
acataagtgc tggacaaatc tgtctattaa attataccaa atcatgtttc tggccataaa 180
ttctccgctc ccttaaacad tctgtactgt tcttatcttt aaatattttc ttcaattctt 240
tttataaggt ttatcgacac ttaaattaac ataatccaaa ataatcatga tccgaagaat 300
tggata 306

<210> 32549
 <211> 293
 <212> DNA
 <213> Glycine max

<400> 32549

atgggtgacac tatatgatgg gatcaaccat atcatagcat actacagaat ctaatatgtgc 60
 tctataatct ttatatcttt tcaacgaccg atcgctagtg tactacacaa gcattcacca 120
 tgtaaaactgc ttgcttctat tacactatgt gggcgactct ctctatgca gatgatcaca 180
 tattcctgta atacaccgaa aggctaactt tgtttacaca cgaaaatgat cttcatgatg 240
 actatctacg gagatataat gatgagatgt atagaatgta atcttaaaaa cat 293

<210> 32550
 <211> 449
 <212> DNA
 <213> Glycine max

<400> 32550

tatggactta tggtttctat cttattgtga aaattttcta ggctttggag aaatataggc 60
 ccttgaacat actagctatt tcattgaaag gttggagaaa gagcttgaag agtatcatca 120
 acaccttgca aagtttaaaa aagggaaga ggataccggt aaagatgtta gttttgttcc 180
 atattaattt aaaaaaattg tctatacaat gcttgattta gaaagaaaaa tgcataaac 240
 aaactcgttt tcttgctttt ctgtcctctg caagttggaa tatatcataa catttataat 300
 aaattgtgat ccagttgatg ttttgaaagt gtggcaaagc acatccacta gggattatga 360
 aacagtttga ttactactaga caagtataat ttaaaatcaa aatgatgaga agagaataag 420
 tggaaaatga ctaagctata taagtgttt 449

<210> 32551
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32551

tagcaaccag ccccaaacc aatttttgtc gaaaccaagt gtcatgatgt ctatattacc 60
 aattttgcta gctgttgatg ttgcatcata gttttgctat gtcactacc tttggctca 120

tctctttacc ttacaattca ggcaattcta tcattaccct ttttcaatat atagaattgg 180
 caacacccca catattaatc caggaaattc caccactaat agtcagccta taatccataa 240
 ccaatgaagt ccccatctc caatttatc catcttctaa ttttattgta gtttctgcag 300
 atttaaaata agcgtctggt tcttcgtttt aacataaatc tattgcttag cttataattc 360
 acccaattct gccttttagtc attntcaaca tgcagaacta tcaacatgca aagagatctg 420
 attatacaaa agccaggatc aacagaaaac gtattat 457

<210> 32552
 <211> 422
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32552

gtacgtagta cgtagtgaag ccaaaggtct gtcgacaagc ataatttcat catctctgaa 60
 ggacaactgt ttaatggtac atacgtgttc ggtgcaaaac tagtagcact ctaaaaaaat 120
 aggcgctgt cagaggcctt ctcatgact atagtttaaa aaatgcaata atgaagataa 180
 gcatctctcg actggcgtaa gaatatcaag tagaaaagaa accattacat gtaagcttcg 240
 gcggttatcc ataatcaggt cattcttgat ttccctcaaa cggttccctt cttttacagg 300
 attctgaatg tgtttggtg ttccctcctga agatgaatat ttggaagtc cctagtagac 360
 gttaaatttct tcaaaacttt atactntggt tgggaagatt agactgcaac tggttcactt 420
 ac 422

<210> 32553
 <211> 380
 <212> DNA
 <213> Glycine max
 <400> 32553

tcttatccaa ggctcatctt gcgggtgaag ctcttcttc catggcttat tccttaattg 60
 atggcgctc ctctcacctc ctttctttg tcttcogctg catctccatg gtggaaaatc 120
 accattaaag gacccattg aagctcaaag atcaagcctc catagaagcc ccacaagcaa 180
 gcttctctcc cgtggaatca gagcacaaga gcttcaagta ggtgcacctt aaacctccat 240

taattatttt tctttacctt ctcttcatt gttgattctt cattttttctc catgtatctg 300
ctcacatgtc ttgtttctaaa tgttattaac atgattcgtt agagtttcca ccgattaaac 360
ttgctataga agtttagattc 380

<210> 32554
<211> 439
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32554

tgtgatggat agcaaaagga gtatgagttt agtatatact tatgtgtgga aggaaaaaac 60
ctttcggcct tatgtctccc taaaaccctc ttttgtgctg aaatacttta ccccaaaaca 120
cttctccttt tctccaagaa acccaccatt ggagaaacct taagcttttg tgttgtgcaa 180
aaagcacctc tcccctctcc ctttagtttt tgttgactgt cccttggtga agtaatctac 240
ccctcttctt ccctttgttc cattttccgt ttctcataaa acatccatgg gagctcatga 300
ccaagattgg gttttggggt tttgatttcg ctctgtggcta tttttgggtt tggggcaata 360
ttgctgagat gaacttgncc ctggagtcaa gaaaagcttc tcncttgac ccaaagtcac 420
catttctctt ctctctcac 439

<210> 32555
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32555

ctctcccaaa ttttctataa atagggggag aagtgaagta gataggggtt cagcccccta 60
ggcacttctc tctctttcga atttgcttga aaaaattgtt tccgtgaaga aaatccaagc 120
cgaggcgctt ccgaaacgtt tccgtaacgt ttctgtgagg aatttcgcaa aggtttcgac 180
cgttcccgac gttctcattc gttcttcac gttcttcgat cttcaacggg taagtacctt 240
gaaccaagct tttcgattca ttctatgtac ccgtgggtgg ccacattgag tttcgtgtat 300
ttttattctc gtttcgttta ctttttatac ccccttttga cgtgcttaag ccatntatt 360
taagtcattt ctgcgttaac ctaacaataa aataaatttc caccgatcgt ttgaattgta 420

ttatccgcta acttcgggta acatgaattc cgaccg

456

<210> 32556
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32556

gttcgattca ttctatgcac ccatcatggg ccacattgtg tttcgtgcan ttttattctc 60
gttttggtta ctttttatac cccctgttga cgtgcttaag ccattttact taagtcattt 120
ctcgcctaac ttaaaaataa aataaatttc caccgaatgt ttgaattgta ttatccgcta 180
acctgcccc caacaattcc gaccgctcgg tcgtgccgca accacgttgg aaatcaaaaa 240
gagataaaaa aataatataa ataaaaaaca acatctttta gtaaaataaa gcggaaaatc 300
aattggacgt tttctctctg ggatctctca ttcttaatcg aattgattaa taactaaagc 360
gaaactaacg ctaatatcaa ctgcctagt caagctcgtc cataaaaaat 409

<210> 32557
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32557

tgccaccag ctgcccac atcacaaca cttttgaatc aaaggatctt gcttctatga 60
cacatgctaa gctatttggg aaattaaggg aatacgaaat ggactagata ataatgggtg 120
aggaagaaga aatagacaaa cagattaagg gcttggcctt gaagaccacc attctgttaa 180
gcgcgatagt aaaatgacaa tgcaaaaggg ttagatgcta agaactctaa ttttcttgta 240
aatgggttag acaaatttct caagaagaag aagaagaatt ttgatgatag aacctttcag 300
taaaaaaaga acttcaagaa gagtgaaccc tcttcctcct ctggctntac atgctntgag 360
tgctacaaaa caggccatat canagtagat tgccccacct accacaagaa gcaat 415

<210> 32558
<211> 441
<212> DNA
<213> Glycine max

[illegible]

<210>	32559
<211>	318
<212>	DNA
<213>	Glycine max

cgacacactg accgctacta tagcttgaac atgacactta tttcacaacc atcgggtcttt	60
ctcatcatct cccaaatgct ccatataata tattttctttt cagcctcaaa cttatctttat	120
cttgctcaat aaatgcgcgc atgatagggc actaccctga atctgacata atactccccc	180
ccacactcca tctattgggt cgaatggatc tctttgcatt atacagcatc accttatctt	240
tgaccttggt ggcagcaaac cgaagacata ccacctgtcc aatccaattc ttatgctagt	300
cacttagcta ccacctac	318

<210>	32560
<211>	314
<212>	DNA
<213>	Glycine max

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cgaactatatt aatcgattgt cttacccgca caaaacatgt gctaaatctc aatcaaacaa 60
aatcctaatt aactcttata gtgtgtccgc acggagaaac tcacaactct aaaaaaattt 120
aaattctaag aatttccaat attccaattg aaattctctc attctccaaa ctttgtgttt 180
ctcccccccc ctccaattat gagatgaaaa aaatgaatga acaaaaagac aaaacatgat 240

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<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32563

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 ttactccaaa agtctaggtc aaggtgaatt aaggagagag attgcaacac aaaacttttt 120
 cattcaatca atgagttcca taggcatgga gtccttccaa gaggtactaa cttatctttt 180
 ttagatcaac tgccaatgtg ataatacaca aagtttagat cattttagac ctatttcttt 240
 ggttggatgt ttgtataaag ttttggcaaa gatttttagct aatagaatga aaaatgtact 300
 tgataagggtg attgaccta gctaaagtgc tttcctagag gggagagaag ttctacataa 360
 ttcggtggtg gccaatgagg ttgaggatga agtaaaaagg ggaaaaaagt catgtttgtt 420
 gctcaatgtn gcatttgaga aggccttcaa cttgatgt 458

<210> 32564
 <211> 457
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32564

tctatggagg ctggatcttt gagcttcaat gagtttcttc aattgtgatt ntcaattcta 60
 gagatgcaac gaaagatgaa ggagaagaag tgagaagagg tatcatccac tagggaaaag 120
 ccatggaagg aggagcttca ccaccaagag acagccttgg ataagaagct tagagaggaa 180
 gattcttggg ggaaagaatg agagagagag agggggggagg cacgaaattg aaggagaaaa 240
 agagggagag aagttgaact ttgaagtgtg tctcacaagt tttacattca tcaaagttat 300
 gacaagtgtt acacatgttt ctatttatag cctaggtcac taactaaatg aaagcttctt 360
 tgagaagcta gagcttagct acacataccc ctctaatac taaggtcacc accttgagaa 420
 gcttccttga gaagttaaag cttagctaca cacaccc 457

<210> 32565
 <211> 456
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations

669707" 9072460

<400> 32565

ntatactntn tatatgttaa aatcttaggg aatccttata atatatcaat aaccaccacg 60
aacacattct gtcagattat caagagaggt tatgaagaat acctagatcc ataatacgt 120
gcggaattaa caattataag gagcaattga ttggtgatct tcttcaacca aatcattggt 180
ttccttggtg agacttcatt ttctctcaa atggggagaa gggaagttgt ttcttgattt 240
ggtgtattgg ggaccacaac catgctttgg gtttttaacc tattagagtt ttcattatcc 300
cctaacgggc caaacctatt tccactttta agcccatatt aattttctga tgatagccta 360
ataggctcac caaattagat cacttatatt gagcccatag aanaatataa ataactaata 420
taaagtgtat aatataatat gtagccca ttaatt 456

<210> 32566

<211> 441

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32566

ntgtataatc tgagatacta gtctacaata ctaccagatc gaatttataa aaccatcttt 60
cttaaataat tgagggtcat aatcattagt ttttttttaa atgatatatg aacagtgcag 120
ctttttgtc ttggttataa ttgcattgat ccataccact tggttacgag cttgcttaga 180
aactcaataa ttagagctac ttgatattat tgtgtaattt ttttgaaact gattgcgagg 240
aactgtcag caactcagca tatattcttc ttcttttttc attaactatc agcatatatt 300
ctatatttcc aaattttagt ggacgatata taatagtttg atattttgat tcatagtctt 360
ctatgtgtca gtgtatttat tatacatgcc ccggcctttt cttagctccg ggaccaagtt 420
ctacgtaaaa tacaattata t 441

<210> 32567

<211> 403

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32567

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tctgaat tttcagaat gttgtactg aattttatat atatttcttt cttactgaat 120
 tgtgctgtg cgtgtattta tttattatgt cttcagttgc ttttatcgct gttcttttgt 180
 ttccccacc tacccttgt aacgaatctt tttaatatgt aagctcattc ttgctcgcta 240
 ttgtatttgc tctttaatca ttcgactgac ctttttttggc tggatgtacg gactgctgta 300
 gtgagttcca cttcaatcca gtcttgaaca tcgaactcga tcaaactatc catgtgctta 360
 ttgactgagc tgatcgaatt acaacatcaa atatttttac cgt 403

<210> 32568
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 32568

tgccgccacg gagttttccg actatgctct tgtgtggtgg aacaagctac aaaaggagag 60
 agcaagacat gaagagccaa tggttgatac atggacagag atgaaaaaga tcatgaggaa 120
 gcggtatgtg ccggctagtt actcaaggga cttgaaattc aagctccaaa aactaacccta 180
 aggcgcacgg gggcgaggag tatttcaagg aaatggatgt gctcatgatt caagcaaata 240
 ttgaagaaga tgaggaggta actatggctc gatttcttaa tggtttgact aatgatatcc 300
 gtgatattgt tgagctgcag gagtttgttg aaatggatga tttgcttccc atagcaatcc 360
 aagtggagca acaattaaca aggaaggag t 391

<210> 32569
 <211> 226
 <212> DNA
 <213> Glycine max

<400> 32569

tcatgatgaa tcacgattaa ttcaaagaag tcttgatgat tattaatagc tcaaagatca 60
 agactgagtt caagattgaa tcacgaacac ctcacggttc ccgaggaact ttgatcttcc 120
 gaatcaagaa tcaagtttca agattcaagc ttccatgaat taagatctcg attccggaat 180
 atcccccca cccagacac ttaataggga aagtatgaat ttttct 226

<210> 32570
 <211> 450
 <212> DNA

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<210>      32571
<211>      408
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      32571
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<210>      32572
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<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      32572
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13573

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 tgttcaaaca tgcttttgta caagctacac aactcaaac aacagaaatt taaaagacta 180
 ctccagcata actaaataac tgacatgaac taaatagctg ataaaataaa ctattcaaaa 240
 tttgcaaaaa tttaaaaact atgcaggatt caccatctct cccttgataa tggggaaagt 300
 atctcaccag ctctcaaac ttggctggat atttagccac aatcatgttt ccctgcttga 360
 gctccaagaa ctccatctct ttcttggtcc taacttctc gggaaagtat ntctncaaaa 420
 ataccctctt ga 432

<210> 32573
 <211> 426
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32573

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 ggatttgagg acgaaactca gtttaagtta gtctaaacgt aagaggactg tctaaattgg 120
 gcctgggtctt acatgaggga tctacggacg aagcttggat taatatggcc tgatgagcat 180
 cgaggctaag taatttaggc tacaacatag aacataagag catgattgat tagagaaata 240
 tatttctata catcagcttg tttgttagaa agacctaa tttctaccta ctgctatcat 300
 ttttatttac ctgcatnt atagttctag cataaaagt tagtttaa tctgtctaaa 360
 attatcactt atacatgta tctcaacaat gttcaattc taaacttaag tcacgctaac 420
 attagt 426

<210> 32574
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32574

nttaaagaat catgctnctg gaaaatcata taaattgtgg tcaactcttaa ataatgatt 60
 ggtaaaaagt cacacaagat aaataattat agaaaaataa aatatattaa aatttcacat 120
 caattataaa taataacaaa ataaatttac aaactgcttt tataagatta atatatatat 180

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<223>      unsure at all n locations
<400>      32575
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<210>      32576
<211>      453
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      32576
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13575

<211> 460
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32579

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atgacaacaa agaactat tatacaaggt tggcatgttc taaccaaagt agaactgaaa 120
gactgaggtt ttttttttaa agttgttgat tttctttga gttaatattc tattaatttc 180
taaccgcgcg tcgccttatt cattggcagg tgtttatatt aatgaaacaa gttatgccct 240
atacatgcat tttgcatcca atgattgaag agatggatga aattatagtt gcgcaagcca 300
cggcacatgc cgggttaattg agaaattaat cccaataag tataaaaatt aaaatacata 360
tataatgctn tacaaaaatg gcatataatg cctataaaag ggaggagat cttgttagct 420
aagcattcca attntcacga ctatacttac tatatatata 460

<210> 32580
<211> 420
<212> DNA
<213> Glycine max

<400> 32580

taatagacc tcgtggaggt acagcagtaa gaagaacgta taaaaccatt ctagaagcta 60
ggggtggtga tgtaaacaga ctataggccg ctaggattgt tagttagctg ttacgtaact 120
aactacatgt ataaaagcca tgcacgaacc cgtgaaggga ttatggaaat aatattctca 180
tttccagcta gatctttctc tctctctct tctctcgtag aatatacagt ctgaggaat 240
gctacctcta gcattggtgc tttcattgca tctctccgc catggctgat gcaacacgat 300
caaagacaag catggagcgt tgggaagacg cgtttgcaa gctctttgca tccatgacgt 360
taaagtctga cgaacttctc agccatataa atcacctaga aagcctccac gccacaatc 420

<210> 32581
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32581

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 gttgtgttta cttttttatac cccctgttga cgtgcttaag ccattttact taagtcattt 120
 ctcgcttaac ttaaaaacaa aataaatttc caccgaacgt ttgaactgta ttatccatta 180
 cttcggttaa ataaatttcg accgttcggt cgtgccgtaa ccacgttaaa aatcaaaaag 240
 aggtaaaaaa taatataata atcaaaaaga catcttttag taaaataaag cggaaaatca 300
 atcggacgtt ttctctttgg gattttctcat tcttaatcga attgattaat aactaaagt 360
 aaactaaagg ctaanatcaa ttgcctagt caagctcgtc cataaaaaata ggctcttgaa 420
 gtttgtcatt tcattntctc actaagtaaa a 451

<210> 32582
 <211> 429
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32582

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 aaacttccaa agaaaaatgc ccgattgatt tttttttat tattttattc aaagatattt 120
 tgattatttt attattattt tttcaagata ttttgattat cctattatta ttttgctttt 180
 tccgcccact cacgttacaa cgtaaacgat cggtagatt ttactttaat agtgattaaa 240
 caacattaca ataccaatga tcgntgaaa ttcattttat catttattag gcgagataac 300
 ggcttatata aactgttaaa gcacgttaaa aatggaagag aagacaacta acagtaagcg 360
 aaattaaagt gaaagtacac aacaagtcgg gaccactaag ggtgcataga atgaattgaa 420
 agattcgat 429

<210> 32583
 <211> 332
 <212> DNA
 <213> Glycine max
 <400> 32583

cggtgacaat aattgggtga aaataatata tcagatgaaa gataaatagg caactgctca 60
 tatgcacaaa aagttcattt gtgggatcaa aacaacgtca atttgtgaag gtattaaatc 120
 attcatcaag cgatatgtgg agaaaaagaa tagcctggtt gatttcaaca ctactagaaa 180

attcctttta acgcggttct aatatacatt taacgacggt agttgaacca tctttgaagc 240
 caacgacatt aaaagtcatt gatgtaccat gacgattatg gaataaacca tcttaaaaaa 300
 tatgtctctt ctaagatggt tcttatgtaa ga 332

<210> 32584
 <211> 454
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32584

ggcctaatta acctgaaatt gagaganaat gattattaaa cacacaaaat ggaagtacta 60
 agtattttatt atctatactt aacaaaaaaa tacttataac actacaaaat aaccataaat 120
 tggaagagtt tgatacaatt tacataagtt ttatacacia aagttattca tatttaccga 180
 cgatcttctt acattcttat tagcagcctc aactgccccca ttcattcttg gccgataaga 240
 cgtggaatta tgggtgttga ttttgaaatc ctcacacact ttcttcatca tattgttggt 300
 taaattggtg gcattatcag tgatgatctt tntgggcaaa ccatatctgc aaattatttc 360
 cttcttaatg aacctaatac ccacattcca agtcacacta gcatatgaag ctgcttccac 420
 ccatttgctg aagtaatcaa tggtgactaa atg 454

<210> 32585
 <211> 448
 <212> DNA
 <213> Glycine max
 <400> 32585

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 atcatataac aatgaatttg agattcatat tacctcgtaa ccaacggata cgatgggtgtt 120
 caattaactc ttgctgcaat gaagagcatg cgataccata cccagattg caacaatgcc 180
 cacagctacc atggtttttg catcagggtc agtggcacta cacatttctc tgtacatcgt 240
 tgccagacaa gtagagcccc aactatacca cctgactcgg tcgagatcaa ccaacacagt 300
 gaggtacatc aatgaacct gatttccat cttgtatggc attaaaacce caccaattag 360
 ctgcaaaatg taagctctac aatgtgcttc taactacttg tgtgtcgggt ccaagtgaag 420

cagtggcata ttatcttgca accactta

448

<210> 32586
<211> 188
<212> DNA
<213> Glycine max

<400> 32586

tgatgtcgag cgtactgatg ggtaccatga ggtgtcttct gtggtttgac ccacgcgggt 60
gtcgaagaga ctgcatgggc atctccttcc ttcttttatg ccccggttgt cccgactctt 120
ttggcattag ccctcgcgga tcaaacgtaa tcgaaccttc ctcttttcaa cacctaatag 180
ctcccccc 188

<210> 32587
<211> 302
<212> DNA
<213> Glycine max

<400> 32587

acatttatct gtatggtgat ctgcacaaga acatagacca cagactctcg caacaggtgc 60
agatctttga ttcattggcaa gctgagttac taggttgacc aacgcataca attttccctc 120
aagcttttta tttttaataa atgaagaccc cccccccac ctcatgaact tctataaaga 180
caatagcatc actttttgca ctgaactgtt cggagccgga acccactttc tcaatcaaata 240
tcctgacctc aacaggcgctc atatcaccac aggtccacc attggcagca ttaatcatac 300
tc 302

<210> 32588
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32588

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atcatataac aatgaatttg agattcatat tacctcgtaa ccaacggata cgatggtggt 120
caattaactc ttgctgcaat gaagagcatg cgataccata cccagattg caacaatgcc 180
cacagctacc atggttttgg catcagggtc agtggcacta cacatttctc tgtacatcgt 240

tgccagacaa gtagagcccc aactatacca cctgactcgg tcgagatcaa ccaacacagt 300
gaggtacatc aaatgaacct gatttccatc ttgtatggca ttaaaaccnc accaattagc 360
tgcacaatgt aagctctaca atgtgcttct aactactggt gtgtcngctc caagtgaagc 420
agtggcatat tatc 434

<210> 32589
<211> 592
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 32589

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ctcacacata ccctctctcc acaaccgcgg cgcggcgcnn ctgctgatac actcgtatta 120
cgtncaactat atatactaca gctacgcacg atcttgaca tcacgacaac tacaacagtg 180
tctgcttctc attaaagagt gcatcattta cattcagaac agggatgact atctgaccga 240
acttgctgat gttgttctgg atacctccta ccagcataag tctcaatgta tgatacccta 300
tcttcacacc ataaccattg gttgactgcc ctgcgccag caacggccaa ctggacgtgt 360
atacaagtag tttgcatcct tatgaatgag atctcacata taaaactcgc cttctatct 420
tctaagact cattcagacc ttgcgaaact cacctcgaat gctctctcac ccattctgact 480
cgaagatgta ttcttctca catcacctat ccagactatt ccgagccaca ctatagccat 540
gaacccatgc tcgacatcca cctgttcttc catatcgccc ctccccccgc cg 592

<210> 32590
<211> 514
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 32590

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cgagatatca ctaaataagc aacgcgttag ctacgaacgc tctctatcgc agctaagctg 120
acgcggacgc tgtgctgcat gagattgtcc acaactggta cctatttcga ggaatacggg 180
ccacgacctg taatacgggg ttcaaacgcg atactggcta taatggcgaa aggacttggg 240

gtgccacccc gtcaacgctt tgtgatattc ataaagagga gatgaccacg tgttggtcca 300
 tggcttgata aaatatagcc tgaagttgat gacatccctc cgtgcttctt tattagcgtg 360
 agcctacgtc cgtccgatga acctatttga cactcatggg gggtaagagg atcacatcat 420
 gcaaacctgn tacgcgggct cacacggacg atggatctat ggcttcatgg agcgccttca 480
 acggaacggt gccacatgat attcactaga cacg 514

<210> 32591
 <211> 318
 <212> DNA
 <213> Glycine max

<400> 32591

ccttcaagtc gcaagaacaa tcataagttg aaatttggat tcaaatacct tgaaagtctg 60
 gcttgagaaa aacagaagct gactctaaag ggacttgaat aagctcggtc aacagcttgt 120
 ggctagaaaa gaacatacca aaccaattag aacagatata aacaacacaa caatatattc 180
 aggactcccc tctccggaa taacttaata taagccagtg ccataattcg ataatcatag 240
 ctcaataggg taacaaacaa tcacagtcac ccacattgga atagctttca ttgcagccgc 300
 aggactacag attcacca 318

<210> 32592
 <211> 397
 <212> DNA
 <213> Glycine max

<400> 32592

gactactgat ataattaagg tggaataaca aaaatggacc atatccgaat ttcacaatat 60
 ataaatatga gcaagtgttt cccaagtaa agtcatgagt acaacctcgg gatacagata 120
 tatatgatga caaagcaaat gaatgaatat acacaaacaa aagtattcaa gcatatgcct 180
 accgcatcac catctataaa agaaaaggtc ctaggctcaa agcaatcatc tctaacacca 240
 aatcagtgtg gaaactacac ataacataag tgagcaggcg tccacacata acatatatac 300
 ctaacgaagt gatccacacc tctagtcaca gtgggtatcc atcagctcca agtgactca 360
 tcttcgagat ggagcgtcga ctccccgacc tacatct 397

<210> 32593
 <211> 406
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32593

tctggtggga catcttgact tgctctccaa tctgacattc accacaaatt ctgccttctt 60
 ctattttcag attgggaatg cctctaacag cacctttgtc aatgattttc ttcattgcctc 120
 ttaagtgcag atgtccaaat ctttgatgcc atattctgac ttcattcttct ttggaggacg 180
 cacatgtggc gagtaactgg tttcttgagg tgtccatagg tagcagttgt cctttgatct 240
 gctgccttc attagaactt caetcttctc atttgtcacc aagcattctg actttgtgaa 300
 gnttacattg aatccttcat cacacagctg actgatgctg atcaagtctg cagtcagtcc 360
 cttcaccagc agtactttgt ccagactagg aagtccatca tggact 406

<210> 32594
 <211> 488
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32594

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 ctgattgtat gtgatacctaa atggatcaca atctacatat ttgctttgaa cctgtcactt 120
 gaggcaatgg aacataatga aatctcacgg acaaattctca cgcatagtct tgagtcttga 180
 agggcacatg tcatacatat cagactaacg aatgtcctgc cgccacgata cttggatctg 240
 cccccccctc cgcattacta gaataaaaat aagacttaat tttcaatcta tactgcaaatt 300
 ctctaaaact gcgttatgca acctccatct cattacgtat atgccccacc caggtctgcg 360
 atttcaccag actctatatt ttcacgaaca tctcagcaga tttaattctg ttaaaactca 420
 tatcgcaatc aaattataac aatattacgt ccacctctga cctctgacga gacaaatgag 480
 ggtctccg 488

<210> 32595
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 32595

tctagccana tggacttacc ttgaattaat tcctttgata gccctttga gcctatgttc 60
cccttttctt tgttttgaag ctcattacaa gccttaaggg aaaaaccatg atctcacctt 120
aaccttaagg aattttggag ctttgggaatt gttttgggaa taagtgtggg gggttttggt 180
ggacacatat ttcgtggcta tgcttcatga tgtattttgg gccatacttg atgtacattg 240
tatactgggtt aaatgttga catgctgaat gatatgctat ttctcaaag ctatagttaa 300
aaaaaacaaa aaagaattta gttgaatcaa ttcgaaaaaa agacaaagaa aagcaataaa 360
gttgagtga taagatctta catggaaaaa gaatgatgag actcttggct ctactctctg 420
catctaaatc ttatctttag gttctcttat cttttctt 458

<210> 32596
<211> 312
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32596

tctagccaaa tggacttacc ttgaattaat tcctttgata gctcttctga gccttgtttg 60
cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat attaccatat 120
ccttaaggaa ttttggagct tcggaattgc tttgggaata agtgtggggg gtttttgttt 180
natcccacca ctcgtttgtc ggctatgctt catgatgtat tttgggccat acttgatgta 240
cattgtatat tggttaaatg ttggacatgc tgaatgaaat gttgtttcat aaagggttaa 300
gagttctaataa 312

<210> 32597
<211> 456
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32597

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gcatagatac gatgcaagct cgataaagga gatgaaggct ctacaagaga gtctaggcac 120

acttctcgtg taggaggaga agttctggca gcaaaggga aaaaatcatt ggcttaagg 180
 gaaccaacta ctagactttc aggccacgac atcacggcgg aaaggaagaa acacattaaa 240
 gaagctccaa ggagacaatg aggttgaggt tcatgatcaa gatgggtattt atgaggtagc 300
 aaaaaatatt ctactgattt cgttactgtc tcgaataagg tttatgagcc aatgttggag 360
 gtgataaatt gttgcatctt agatgaagat aatgagaaac ttactgcaat gtttagttta 420
 gaggagttaa tagaggtagt gtttcatatg gataac 456

<210> 32598
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 32598

tctagcgtac ccgctattgg tgctcagaaa atcctaagaa cttattcctc ttattactag 60
 ctattttgaa ttcttttagtt cctgaatgta caaccttcaa attgttgctc gttcccgat 120
 tagttttttg caaaaaagaa aattaatctg aaacaattca agctgaatcg ttatcgttat 180
 tattcccagc accatacgaa taacagctaa acaagtaatt taaaatgtaa cttttaaatt 240
 atgtgggtatt tttttaatta caattctact tcaatatcta atcttgtaa tctacttagg 300
 ccgattgtta aatatcaata tgaatttaaa ggtgatctac tgataatata aagtacttgc 360
 taatcacaaa ttatgatagc tatcacttct aaatttaact tacttctata aatat 415

<210> 32599
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32599

ctaatttcat gcacaaatga agggataaga ctccaaaaga ttntttgttc acaaaggcca 60
 ataagctttg gtgtaggctc tctttgacaa ggctttgtga cactttcagt gacccocttg 120
 gcagccaatt tgaacgtgcc aagccatacc acaaatgggc atttttactt tttgcaaaac 180
 aacaaacatg gacggataag atttgccaaa aatgggtatt ttctcctttt accaaaacca 240
 gtaaataatta tcttaattgc gtaggttatt gtgttaatct ccctaggaat acatgtacct 300
 agagtaatcc tcatacagag aacactctca cacatagtta aattacactg tgctcagtg 360

ataatgcaat ttcactactg atgaaattnt ntatctaggc agtttccaat ttatgtcaac 420
taactaaata aattatttcc acagaaaata aataaa 456

<210> 32600
<211> 448
<212> DNA
<213> Glycine max
<400> 32600

tgtagatctt taatctccaa tacttcttca caagtttatc aattcatgat gataaaatga 60
gtgattcttt gatcaatctt tagactaatt gcagtgttat tcttttcgaa gactctcttg 120
aaatgttttt ctctaaattt gaacaaatca agagtatttt taaaagaaaa cacatagggg 180
ttctataaat ttgacagtta aaacagatcg aatcgattat caaacaaggt aatcaattaa 240
ttcaacaaaa tccattttgt tttgcatttc tagaaactgg ttaatcaatt attagatagg 300
gtaatcaatt aattcatttt agtatgagaa tatttgtaac gatttagaaa catttaatgt 360
tgttacattc ttttagggta gaaaaatcat tatgccatt ctatatatta ctgagactca 420
acacacagcc tagagaggtg gtcgacta 448

<210> 32601
<211> 456
<212> DNA
<213> Glycine max
<400> 32601

tgtaggatta tggggtagcc atcacatgtg gtactaggtg gcggtcgggc gatggtgcaa 60
aacgattctc cacatccaca aatcacgtat aaccacccat ccctgttgcc ccacctccaa 120
ctgagctcac gtactccac gtagccctta tctcgttcc tctcaacgtc ggggtcccat 180
actcctccca agttccacaa catccaggta attccacatc caatcatcat ggactaacia 240
aaccaagcaa aacagggcaa aggcagaaaa ctctgcccc aactcacacc aaaaatcaca 300
gctttttctc acttaaggac ccagtaaca tttccttcgt tccaattcgt taaccgttag 360
atcgactcga aaattctact ggaagtctct agtcataag tctacatttt gaccgttggg 420
atctgctact aaatgtccag aaccccatat gtacta 456

<210> 32602
 <211> 458
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32602

tatgctgcan atattttacaa tagacctcct caacctcagc agcaaaatca accacaacag 60
 aacaattatg acctctccag caacagatac aaccttggat ggaggaatca ccctaattctt 120
 agatggtcca gccctcagca acaacaacaa cagtctgctc cttccttaca aaatgttgct 180
 agcgcaagca gacatacatt cctccaccaa tccaacaaca gcaacaacc cagaaacagc 240
 caacagttga ggcccctcca caaccttccc ttgaagaact tgtgaggcaa atgactatgc 300
 agaacatgca gtttcagcaa aagaccagag cctccattca gagcttaacc aatcagatgg 360
 gacaattggc tacccaattg aatcaacaac agtcccagaa ttctgacaag ctgccttctc 420
 aagctgttca aaatcccaaa aatgtcagtg ccatttca 458

<210> 32603
 <211> 374
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32603

tcctcggggc attcctgcca gagacaacat tcggaaagtt tagttttacca gagggacatt 60
 actcttaaaa caaagatggc atacaacctc ttcccatata catgaatgct tatgtacagc 120
 cagcttatgc gtatatttcc ttacaaacgc cccattgcgc aagacattct tttaaataag 180
 cccctcgccc atatacaatc aaggcagctt ngttacctag attatttaca tgtacttccc 240
 aggtgtatgt gtcacttaca tcacacacat ctccctgggt aaacttacat gcatgcatac 300
 tcagagcatt ttgcgggtacc acaaattgca catgtgcaca tccttggttt tctaatacct 360
 atacctaccc aaac 374

<210> 32604
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 32604

tataagcttg accaacacat caaacctcan agaacaaata actaāaaaat tttaaacagt 60
aataaacata ccctaaaatg atagaggctt gcaccgaatt ttgttctgca tgttttccat 120
tggatgtcaa atgtagtttg tcttcgaaga catatccaga acttgaggta ttggctgagc 180
ctactgcacg cataagggca aggatcctta tagcctttgc aaacggaatg gacatcacac 240
aacttatgac cacaaggtag atgtctgctg gtgttgata atgatggtct atactgattc 300
agatccctgt cctgcattac agatgccnc atataaaaga gagcatctgc caatcaatca 360
ttgaaattaa cagctaaatt tcttaccct cttgcaagaa ctgttgttga agtccacata 420
tgaacattca aagtatatta ttatttac 448

<210> 32605

<211> 427

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32605

cttcgattca ttctatgcac ccatcatggt ccacattgtg tttcgtgcat ttttattctc 60
gttttgttta ctttttatac ccctgttga cgtgcttaag ccattttact taagtcattt 120
ctcgtttaac ttaaaaaataa aataaatttc caccgaatgt ttgaattgta ttatccgtcc 180
cttccgctaa acgaattccg accgctcgtt cgtgccgtaa ccacgttgga aatcaaaaag 240
agataaaaaa ataataataa taacaaaaaa catcttttac taaaataaag cggaaaatca 300
attggacgtt ntctctttgg gatttctcat tcttaatcga attgattaat aactaaagt 360
aaactaaggc taaaatcaac tcgcctagtc aagctcgtcc ataaaaatan gctttcgaag 420
ttcatca 427

<210> 32606

<211> 462

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32606

tggagaggat gcttcaatgg agganaagac agagggagag aaagagagag aggggagcac 60

gaaattgaag gaagataaag ggagagaagt tgaacattga gttgtgtctc acaagactct 120
cattcatcaa agttacaaca agtggttacac atgcttctat ttatagacta ggtagcttcc 180
ttgagacgct ttcttgaaaa acttccttga gaagcttctt tgagaaaact tccttgggaa 240
gctagagctt agctacacgc acccctctca taactaagct cacctccttg agaagcttcc 300
ttgagaagat tcctaaagaa gctagagctt agctacacac acatttctaa tagctaagct 360
cacctccttg agatgagaag ttagagctta gctacacatc cgctataata gctaagctca 420
ccccacgac aagatacatg anaaaacaaa aaagtcctta ct 462

<210> 32607
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32607

ctatagatac taagcttctn cacgctntcc tccataccta gaacttcaaa ccttcgattc 60
tcaactcgatt cttcaccaaa tcgctcccg taaagcccaa tcttcctctt tttcattcct 120
ctttcacttc caccgatcaa aatccagaaa aacttcatca aatggcagag ccatcaaaga 180
agagaaaggg atcatcctcc ccgctaccgt gctgccatc gccgtcacgg cccatccgga 240
gcacccacag cacctattcc tccttctttg tcatctccaa gatcatcaac attgttttca 300
tccgatgac aacgtctacg gtatctttct cagttttctt ctagaataat cttagaccct 360
aagtacctag acgtagagtt ctttaatgat gaaacgtttg attgctattg tcgcaaccta 420
cccttcggtg ggagggcgac gcgagactcg cgggatgcgt gttcca 466

<210> 32608
<211> 445
<212> DNA
<213> Glycine max

<400> 32608

taattccact tttgattcct taattattct ttttagtgca ttccttaatt agtataattt 60
tacactttcg gtcttctaata caactatata tatagacaat ttgattctct ttgtgacaat 120
cccaaattat tctcgtaaaa atattttatt ttaatatatta atcaattcta ttagggctat 180
tcactgcca ttatacctgt aattaataat tgattattat aattgattgt cataattaaa 240

tgaaactgaa ttattaacaa aaaaaataa aatataaaaa tattatataa ttgattcttt 300
 taatatataa aaatattata taattgattg tttatatctt aatattattt taagttaact 360
 atgttaaaac actaatatat atttgaatt atagcatgtt gaagagtatg tatagctata 420
 tatctttaat agagtttaac aaata 445

<210> 32609
 <211> 453
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32609

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 atttttgaca agtcattgtt acttccatca atattgatat tgtatcatgc ttaattatat 120
 gcatttgctt attctgatca ttgtgtgttg cgtgattatt tcttccatgc aggtacatga 180
 ttcccccccc ncgcgaggagtg aaatgatggg cagcagcacc aactaagggtg attgtatatt 240
 tcctttttttt tgtctttatc tttgttagct tgctatatat tttttatttt atatgtctga 300
 gctttaaatg tgtaaaaaat agaaatagaa aggtttgcta tcattctttg aatgccatca 360
 tctaccttta atgactcata tctaaattgg tccctgttta actaaattaa ttacttattg 420
 ccttagcttg actggataga agtatgatat gtc 453

<210> 32610
 <211> 449
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32610

tctaagccat gtccaaagta agaaagatgc atcatccatg actntattgc cgctgaaagc 60
 ttcattagag aatattattt tgttcttggtg gtgcatatg gaccatgtca aagctagcca 120
 ccaacacctc cacctcttga cccgtattcc atcagccaaa ccattcatat gttgtangaa 180
 gtgcgctccg ggtttgcgga aaagcaccca caagtttcgc ccaagacaaa acttgccacc 240
 acatataatt tttctacagt ggaaaaataa atgccctgcg tcttctcct caagggttga 300
 gaaagggcat cgcccatcat ttatcacaat ttggcgtgat tgtaggtttc ttcttggttg 360

caatctatcc ctgagtagta gtctccatgc aaaaactgta natttgcttg gcacctttaa 420
tttccacagt tcaacagaag ctacatcca 449

<210> 32611
<211> 435
<212> DNA
<213> Glycine max

<400> 32611
tgatttgtga gttgacttta gccttagttt cactttggtt attagtcaat tgatccaagg 60
aaacttccaa agaaaaacgt ccgattgatt ttttttatta ttttattcaa agatatttta 120
attattttat tattattttt caagatattt tgattatttt attattattt tgcttttttt 180
ttccctcacc gcagtacagc gtgaacgatt ggtagattt tgttttaaca gtgattaaac 240
gagaatacaa cacacatgat cggttgaaat tcattttatc atttattatg cgagacaacg 300
gcttatacga tcggttaaag cttgttaata acggaagata agacaaccga acatgaacga 360
aatgaagatg acagctaaca caataagaaa tgaattgaaa gtctcggatt caaaaactta 420
cccgttgaag aacga 435

<210> 32612
<211> 451
<212> DNA
<213> Glycine max

<400> 32612
tctctgcatg atgaattgcc aaaatggatg gatccatgct tattgatttc ttttctgtgt 60
atgtgacagg gggggaaaag gagtgatggg cgaacacctg acggaatacg tccaattaac 120
tcgagatgtg gcctattacc tatagcacat ggaagtactc tttttacaag aggcgagaca 180
cacgctctga ccactttat ttgttttcca gtttatgctt ttgatgatat ctgttggtgt 240
ctatatatgc ttatgcaagt cacattatct cttttctgtg tttgttagtt ctattagaag 300
ggagatagaa tgatcaaaca caaaggagga acaaaactaa taatgctgac tccttggacc 360
tttaacacac ttctcattta aagtctcaa ttgtaatcaa cttggatata atctagaaac 420
tagtgattgg aagtcagtat tctgattact c 451

<210> 32613
 <211> 205
 <212> DNA
 <213> Glycine max

<400> 32613

tgagatgacc gagctgcgat ggagcgcagc tggacatagc ctgtatctta atctagcttg 60
 atccaatctt catcttattc caagctgcta tccatggact tctatggatg cgagcttctt 120
 ctagaccag caattcctcg aagtggagac tccgctgtct aaaacttatc cataccttcg 180
 actctgcctc tccctaataa aaacg 205

<210> 32614
 <211> 430
 <212> DNA
 <213> Glycine max

<400> 32614

tttgtttgtg gagtcgcctt tgatctcaac tgtaccatat ggaataacat tagtaacaac 60
 aaaaggacca atccacttag acctcaactt accactcatg agtccaagcc tagaattata 120
 caataacatt ttttgcccaa ccacgaagtc ttttttaact atcatgctat catggaactt 180
 ctggtctctc cctgcagaac ttggcattct cgtaggcttc tatgcggatt tcatctaact 240
 cactcagttg caactttctt tctcaccag cttgatccat agagaagttg caagtcttca 300
 ctgcccagta agctttgccc tcaatttcca ctggaagatg acatgccttt ccaaagacaa 360
 cccgataagg agacattcct atgggtgctc tataggcagt ccgatgtgcc caaagagcat 420
 catcaagcct 430

<210> 32615
 <211> 448
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32615

tattacataa gagatccacg aaggagccca aaggcgtggt tagcacgaat cccgcgctaa 60
 gcgagctatt gccgccatac tcaataagcc cagacgctgt cgtgctcagt gcatgatcac 120
 accgtcatac ctactaagct cagaagggtg cacttaacgc gaggtcgcat aaattttaac 180

tctcctcggc tataaaagga ataggaagca naggagaaaa atgcaatgag actcatagct 240
 ctctattgaa tacactcaaa gcctgaacat ctctaatagg ggaaaccctc cttcttctat 300
 agtcattttc tacttttctt actttatcca tccttattct tttctgggat tcattattat 360
 taatcgcggc ttgactaccc atgctaattgt attacttagg aaggaatgca tttaaaaatg 420
 ggtattttct agagaactag aaaatgac 448

<210> 32616
 <211> 450
 <212> DNA
 <213> Glycine max

<400> 32616
 tcatatggag ccatgccaat ggtagaatga aactattgt tatatgtgaa ctctatcaac 60
 aggagagaac actcccaact ccttttttgt tctaatacat atgctcttaa aaggctctcc 120
 gacgactgaa tggtcggttc agttcggcca tcagtctaag ggtggtaggc tgaacttact 180
 ctaagcttgg tcccaacgct ttgttcaaac tcttccaaaa cctagaggtg aatatagaat 240
 ctctatcaga cactatgcta gatggcacac catgtaatct gacagtctca ctaatgtaca 300
 gggagcgtaa cttctctaag gaaaacctaa tattgatggg gataaagtgt gtagatttgg 360
 tcaatctgtc aacaacaacc caaatagaat caaaacctct gggggtccta ggtagtccta 420
 caacaaaatc catggagata ctatcccacc 450

<210> 32617
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32617

cgtagcaaca aaatgcanaa catttctaaa tcaagctggg ttaaaagggtg aattntgcag 60
 ccatgggaag gaagattaaa gataagcatt ctgaatcata ttggctcaat catcaaacag 120
 agtgcaagag gactcttttt agtattatta agtatcatcc cctattgtgt catttctttc 180
 cagacttgct acaacagggg tggatgatgaa agaaatgtta caggtagtg cattttcctc 240
 atctctgtac aagttctcct ctttgccatt ctactaatca ttaattgatg tagtagcacc 300
 tagaatgaat tttgtgctct aggttaattg ttaagagaag aattttttat atctaactaa 360

tttatatatg gaaattgttt gagcaaaatg aaattctctg aagctttgat caaaacatta 420
gcaaataaca acggaattct 440

<210> 32618
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32618

nntgatttta aatcttgggg ctacgagaag ggagattgga tgaaagactn tgttctctag 60
acaagtcttt atgatttgag cctatgataa atctacttgt tggattttca tgaaatttat 120
attattttac tctatacaaa atttgaaaca atttcatgtt gaagcccttg agagatgagg 180
tcacttgacg cccattgtga catgcaaggc gactaccttg ttttgcaagt tgtgtctagt 240
aatgtgttgt tttctttaat tcttggctta tgtagtgtgc aacttgaaaa attggttaca 300
ttttattaaa ctagaaagaa aattattttc aaccatatat attagaaaaa ttatggattt 360
cagcttcatg ttctaaaggc aaaagcaaaa canagtggct gcaagaaaga cattctgtga 420
agtatagaaa aagtgttgga aagaaaatct tact 454

<210> 32619
<211> 448
<212> DNA
<213> Glycine max
<400> 32619

tgcagaagct cttagaagct gtcctgtgat ctgtcaccat agcctatgct gtagcctcca 60
ttatgaacta tattttgtac tatctgtcaa ttctcgtatg tatatacaca cacacacaca 120
catctcagca aacaaaggct gaggatcctt tttgtgtgca tattttcata ctcaaacatt 180
tcaacattat gaacatattt ttaaattata tagtttggtc ttaatactat caataaatat 240
tattataagg tcaacataat aattattata ggacaaataa taatgacgtc gcgaaatcca 300
tgtagcagac ctcatctagt ggaataaagc gtttgttgct aattacttga gtgtttggca 360
ctagactatg actttgggtc ttgattctga atatacttat aattttgata ccttgtaatt 420
attagcatgt atatatgcgt agtataaa 448

<210> 32620
 <211> 461
 <212> DNA
 <213> Glycine max

<400> 32620

tcataaatcc atcacttttta atattctttg tacacaaact tatttgatgt taatttaaaa 60
 attatttgct caaaaaggaa aaattaaaag agaaaaatta caaatccta tataatttaa 120
 ccccaaaata ttctcataat tagtagttat cactcacata tcaacacatg ttcaaattta 180
 cacttacctc aatctcataa caatgctata atctcatgat tcatcgata ttcaatttat 240
 cacttacaca caattttaat tacaatttca tgatctcaat ataacaattt attacgctaa 300
 tatagtaatt ttgtccaaaa tacaacaaa ttatacgaaa atgtttctca caacatcagg 360
 aataaacccc ctcaacaat ttcacataat catatatgaa gaacacaata caatatatat 420
 gccacaataa accccaattt gatcccctaa ggatctctac a 461

<210> 32621
 <211> 353
 <212> DNA
 <213> Glycine max

<400> 32621

tctaagtgt gcctagcgtc agtcatgaaa tcaagtcgag gcaccgaaag aatcaacaat 60
 tgctctacag gtggtggggc tcgcgaaagt gtgtccgtga ccacgttggt tacaccggcc 120
 ttgtactgga tgtgatactc ataccccaat aatttgagga ggtagtaatg ttgcttcggg 180
 tctggatacc tgcacatca actcccagag gctcttggtg tcgggtagaa tggatgaatga 240
 cctacccaag agatattgcc tccactttct tacagtcgca acgatagcat gtagttctcg 300
 aatatacgta gaggcataga ggagctgatg gccaaagcctt tactgaagta agc 353

<210> 32622
 <211> 454
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32622

tctagccaaa tggacttacc ttgacttaat tcctttgata gtccttttga gccttgtttc 60

cctttccttg ttttgaagct cactacaagc cttaagtga aaaccatgat atcaccatat 120
 ccttaaggaa ttttgagct ttggaattgt tttgggaata agtgtgtggg tttttgtttc 180
 acgcataaca tgtttgttgg ccatgcttca tgatatattt tgagccatac ttgatataca 240
 ttgcatattg gttaaatgtt ggacatgctg aatatgatgt tgtttctcat aaggctacag 300
 agcaaaaaaa atatatatat tataaaaaaa atcgaataag acaaacagta aagttgagtg 360
 aataagacaa gaatgatgag actcttggtt ctactctnta tgtttaaatt ttatctctac 420
 ttctttgtat cttcttatgt tttcttaata tgca 454

<210> 32623
 <211> 429
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32623

tgagatgagg aagtgttgaa gggtgaaaact tcctgctttt attgttgacc acagagtggg 60
 acctggagat atgtcgcggn ggtcaggaga ccttgnggac gtcagggtggg gtgctattgc 120
 ccaaaaccaa gcttgaccaa tcccgaccca agccgggcat agtcgggtcag tgagaacctg 180
 tctgtaccta acaggcgagc tcctggcagt caacagataa aaggaaaaca agaccacaaa 240
 gcaaggaggc ttgtggtggc tggccagctg tgaattttgt gtaatatgtg gattgtggcc 300
 tctggtaatc gattaccaag ggtgggtaat cgattacaag gcttaaaatt gaggacagga 360
 ggctaagatg gtctctggta atcgattacc aaggggtgta atcgattacc aggcttgaaa 420
 atgaagtca 429

<210> 32624
 <211> 447
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32624

taggtgtnc tttgaaaata ttntcgtcac gctctaattgt acgtgttcat actggcagtg 60
 gcatgcacac ctccacatag taattgaagc cgaaacataa ggcataggca acaattgag 120
 atccacagat tagactatca ccataagaga gtaagagatg aaagttcaat taatgtgatt 180

tgcttttggg ggacagtgaa atgtgactgt agatttgggt tgtgcacgct acggatgttc 240
 accttttttaa gctctggtgc agccgcagta aactgttcta aatgtggcta ctgcctcttg 300
 gcctactcaa aaaataaaat taagtcttaa tctaaccata gtaactaact gtcacctttt 360
 ataggatatag atgaatccac aagtcttaac cttaattcaa acacanccgt agtaaatagat 420
 tcacatttgt aaggattaaa ttataaa 447

<210> 32625
 <211> 439
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32625

ctannaattg aattaaaacg ttcagaaagt gctggtaatc tattaccata tatgtgtaat 60
 tgattacaca gtgcaaattt tgaattcaaa ttttaatagc tgttgtaaata catctttggc 120
 cactggtaat cgattacatc ctctggtaat cgattaccag aaagtaaatac tcttgaataa 180
 agccttctca cttaatttct tggccaaacc ttttgctact tcaaataagga attcccttcc 240
 tatttaatat acccttccta agactctaga aactgtcttg atcatccatc ttgaatatct 300
 ttaatttctt tgtcttgaat aaatctttga gaaacaagt atcatccatc ggcataatca 360
 aaacattcag cttgatcctt tgtctacaca aaccacaaga caatggagga tatacatgga 420
 gaataagatg aagaacaag 439

<210> 32626
 <211> 239
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32626

tatagccatt ntattccacg cntttagagc cttgcacatc attttattac acccctatcc 60
 attttagttt gatcactaac aaacttagtg actctgcgga atgcaaagat acacatgttc 120
 tcttttgatt ccacgatgct gggacatcaa cgggtagaac ttattaatcc tgaggggtctc 180
 cccagacctc aagaggatac tctttaggaa gatggaaacc acaggtgttt attatgctt 239

<210> 32627
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32627

tggganagtc ctcttgatac tatttataca tttttgactc tatggcatga gatgaagtgc 60
 aaagattgga cctcttgcta gttgttacta atgaatagct taaacccttg tgcttgagtg 120
 aaacagtagc cgtgagactg tggtttaagc tactttcctt aatatttgct ttatgattcc 180
 ttcattctatg atacagctta cattttattc ttctctttga aagctgcata ttttgtgaaa 240
 gacaagtgat gagtacataa tgcttcattt ttttatcatg caatcagtaa tttttgctgc 300
 atacaccttt gttgatgac actgcatgtt attgtcactt gaggacaact aagttgttct 360
 ctttttgctt gaggacaagc acaattgtaa atttggcgga gttgttagtc gatgaatacg 420
 actaaccttt atgtataaaa 440

<210> 32628
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32628

ntgagctcag acattagagt tacgttacct cgaagattcc ggtgagacag atccaagccc 60
 tccaccattg agttgttacc acagctgaca ccttgccaat tgcagtaatc tgagttgttg 120
 ccatcacccc atccaggac tctcagctct tggttgatgg catgtaatat atcttggtcc 180
 cacgctcaga ccaacaagtt cagaacttga aagacaccaa gctaccagta tatacaaaa 240
 caagcataga aattccatca ctgtacagtg tacactgttg ttctcttctc ttctctgctg 300
 aagcgaagtg ttagtgttta cactccactc aacagtgttc ttctccaaga gccaaaaaat 360
 tggatcaac actctaccac agcatthaaca acttttgctg cttgttcttt tcaccaaaaa 420
 aaagtgcaaa ctttctttca ca 442

<210> 32629
 <211> 474
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 32629

gcggcgcgcg cgcgntttga nngcctcgac tcaactctggg cgaattcagc tcgtaccgcg 60
gatccctaga gtcacctgcg gcatgcagct ttatatTTTT atgctcatgg ttggtattca 120
tactattnca caaaaacttt ttgatataaa taaaaatata ttcacaaaaa actttattaa 180
aacaaaaaaa ttagaacttc cataacataa tcacatgtaa aatgggtata ggtaaattatt 240
aaatagcctt aaaaatattc ttgtatctta ttttgggggt gagaaaataa atatgattat 300
ttaaagctcg atcaagggtta acttttaatac aaaattattt tattaaaatt aactcgatag 360
tatcgacaca tataatacaa aatcttttaga gtcaatgact ccataatact aaataacaaa 420
gagctttttt aatcatctat atattattat gttctaagtc ttttttttct actt 474

<210> 32630
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32630

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ctagagctgc agcttgaccg tttgactgaa gtgcgacctta actggagtga cgactgcttg 120
accatactat tgatgaatat tgaatttaaa tgaatgataa ttaggactga gaagcatgat 180
gtcataccaa ctttgaccat aactactgat gaactggttt ttgctccatg ataaactatg 240
attgcataac tgaccctgac ttacatgac tatctctaata actttgttaa atctatgaga 300
gcatatggct cagcaccatt tactctaact tggggagaaa gtgaaggatg aaagaaacgg 360
taagatcaga ccacacaata gtgttgtaaa aacgagcgag atgacagata ttgcn 415

<210> 32631
<211> 414
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32631

agcttgagaa attacctttn tgggttcaaa aacaagctaa tgtgagaaca ctcttatatg 60

aaacaagaca aggttgagtt gatgggacct tgtacgcatg ttgtgacatg tgtggattgg 120
 atactttgcy gaagggcata atggaagatt ggagggtttt ttattattat ttgggaaatt 180
 ggaggttatg tcaatgattc ttttaattta ctaacatagc aagctttttt attattattt 240
 tcatgcattg acaatataaa ttgtgttaat ctgcaattaa agataatctt aattattttc 300
 atggatggaa aaacttggaa tttgctctca ttgtttttta taaatgatat gggtctttta 360
 agtaaattat ttgaattata aaatanaaaa ttgtattctc aatttataaa caag 414

<210> 32632
 <211> 369
 <212> DNA
 <213> Glycine max

<400> 32632

agcttgagc tttttaactt tgcaggcggt caccagacat ttgaacttgc catcgaagat 60
 cgctatggaa tgaatcctga gattacttca ctcgatgccg cgccgctctg atgtacacca 120
 ccacacctag aaatgacata agattaccgg gagcacaacc tcagctccgg aatagatggt 180
 tatccgctg acattgtctt ctaaagtctt cacatctgac cgtaactgct atccacctgt 240
 gacatgttgc tccagatata ggggatgata ttgaaatagc aaacggatgc gtggaatcca 300
 ttgcaatgaa tgcttgtcta gagcaactat gttttgcctt acctaaatta gactgtgatg 360
 gccaatctg 369

<210> 32633
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32633

agcttgagat gttgtagtgt tgaagggtga aacttcttgc ttttattggt gaccacagag 60
 tggtagctgg agatatgtcg cgggtggcag gagaccttgg ggacgtcagg tggggtgcta 120
 ttgccccaaa ccaagcttga ccaatcccga cccaaccggg gcatagtcgg tcagtggaga 180
 cctgtgatgt acctaagcag gcgagctcct ggcagtcaac agataaaagg aaaacaagac 240
 cacaaagcaa ggaggcttgt ggtggctggc cagctgtgaa aattgattga tatgtgagat 300
 atgggtctctg gtaatcgatt accaaggggtg ggtaatcgat tacaaggctt anaaatgaag 360

acagggagct aagatggtct ctggtaatcg attaccaggg gatgtaatcg attac 415

<210> 32634
<211> 248
<212> DNA
<213> Glycine max

<400> 32634

cttggcttgg ttcaacgata aaatggatgc .cccacattat ttccatgaca caaatgcaaa 60
aaatgatgat ttggaaattt tatgccaaac tggatcatgca tgcgcctatg cggacgccta 120
agtgtcaaat aattatggcc atgtttcttg ctttgattaa tgccgggcca aaaagttgta 180
gcgcacggga ttttggttgg taatcaaaag gagaacacat tttatgtcgc ggtttccttt 240
ccttcttt 248

<210> 32635
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32635

agtttaagac tntggagttc atttgcggca tctgaaccat gccacctgca cacgcgtgcc 60
atagctgagg atccaatacc ttttcacctt cttcatgga aacaacaaaa aaaacagagt 120
gtgttcaaaa gagaaaataa tgtgcttttt gaagtttctg ttttcttcaa aggagattca 180
tcgcgcganag tacaagcacg agctggtttt tgctttttgt tcttttagat ctctgtgagt 240
gaaagaaagg gaactaaaac tacttctgtg ttgttggttac ctttcggaga ctattatgag 300
cgaaacaaac gaccaaaccg acctcttggc cagcaaaagt tatgtttatt aaattgctct 360
gttgaaataa ataagaatag aatgcgaaat gaaatttatt tttgg 405

<210> 32636
<211> 375
<212> DNA
<213> Glycine max

<400> 32636

agctttgttt attgctaacg ctactaaaag tagcttttgg atccaaaaga acgtgagtca 60

tgatatatca ttatTTTTct tccgtctata ccttctctc tgggtagagc cacacaagtg 120
 gtggtgtttc gtggtgtgcc gctgcataca gaagaggaac tgatattcat gatacagcac 180
 cgcccaatgt caacaatgta caaaaatttg gaaaatgaca tgttgccgcc catacattgc 240
 atgcaccgtc aatgtgcttt cttaccatt aggaagttat acttatacca tatgacaaaa 300
 acaatctacc tctgataaaa atctgccttc tcaaccattt gacaatcttt agtatccgta 360
 tcggatgtta ttata 375

<210> 32637
 <211> 406
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32637

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 gaatctggta aacagcgaat tgtttcgaag agtgaagctc ttgtttcgag tgcttggatg 120
 caagtggggt ccaatgagag ggtgcggctg caatcggcaa ttgactcggc gattcgccct 180
 gcggaacggt gcgcggaggg gcggtgcatg tancattcgg cgaggaagct ctgcggcgcg 240
 ctgcgccggc cgtcgacgat tttcgagaag tggcggatgg cctcggagta aagcccggcg 300
 tcgagggcgg cgagtgcggc ggcgcggcgg cggaggagga acttaattgt gccgangagt 360
 tgggccacgc tctcggagtc cgcgagaagg gttcgcggcg gagttg 406

<210> 32638
 <211> 404
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32638

tgtettcaat accaatcacc ttataattat gatccacagc tttaccagat tggcatcccc 60
 catggtaatg ataaattgtt agcacaatgt ctatgcaata ctgttctaaa gagaaggaaa 120
 tattagcatg tttaggcctc aagttaactg gtaaattcaa catcaagtct attagatctt 180
 ggaccgacat gttgtggtan caaaactttg agaatgcttt tgagtttatc atatctatga 240
 cgattatcat gccttcaaca catttcttta agtcttctgg atccttacia tagttgaagg 300

taactgatgg ctatcattcg gatccacttg aggatatact tatttgtgta taaactttcc 360
taattatatt aagagggtctc acaaatatga aacaaagaac aatc 404

<210> 32639
<211> 272
<212> DNA
<213> Glycine max

<400> 32639

agcttcttcc attcttatat atattgaaac gggggacccg accagccaga tgtgatacat 60
acaatgataa tagtgggagg caaaatgatg gtgaacctag ggtggaagtt caaatcgata 120
taacaattat gtccaatgct tatgaaattg gccgatgaag gatctgacta tttggaaacc 180
tggtctttta tttattcaag ggggtgtaaag cttagcagaa agtgggtgaa atttgattga 240
accaaccaca tgggtcttat gatttcacgt gt 272

<210> 32640
<211> 409
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32640

aggcggggnc cctgtaatga tcnctganaa ctccactggc cngggatctg taagtcaactg 60
acgcattgcag ctttgcagtt tgatctttat cctatctcga cggccatggt gaatccgttc 120
agtaatccga agaaaaacgg gctacaatga taaaaatgaa aaggagattg attggtctgg 180
gtgcaaacat tggaaagttg catgacttac gggctaacca ggtaccaaaa gacattttcc 240
ctgccattat tgacgatgct tgacgctgca ggaaatctca ctattgttcg tgatgggtttt 300
tggtatatga aatatatgct ctgagatagg aaatacaatc attgcctcgg cctttgctta 360
gagatctttc gctgtaatgc ctgccttcac cgcgatgat tttagggtt 409

<210> 32641
<211> 377
<212> DNA
<213> Glycine max

<400> 32641

agcttttttg attcgtaaag tcatacaatt atacgatcta tggccgtagg ttaacaacct 60

<213> Glycine max

<223> unsure at all n locations

<400> 32651

agcctgtgga gttatatgaa atgcttttca tttgaatcac ttatgaatac agatatctta 60
gtctctaaaa aggtgtcaaa ggattggtaa gaagctatgg agaatcttag cctctaaaaa 120
gttaatttct tccctcaaag aattggtaag cttttcattt gaatcactta tgaatgccga 180
tgaggaaaac cttacttttc aattttatth aattgcgctc aattctatth aattacactt 240
aattaacttc tgtttatagc ctttaccatt ttgtaaaggt ttaatcctct aatgagcttg 300
tttatattac tggaatgaat ctattctgta cttntcaagt actctctcct atgtaaaana 360
caaaaactta agtctttgtg ttcaat 386

<210> 32652

<211> 337

<212> DNA

<213> Glycine max

<400> 32652

gcagctttat actctactta tgcataaaaa gtatcacgta attcttcata tagacgacta 60
acataattcc caacttttgc actttatctc attccataca cttatgaaca caaaaagggg 120
atctggagga ctttatttgg cttgtaatga ggggtgggctg agaacaattc atttgttttc 180
tacgatgcaa aacttaagtt ctacgagagc attcatccat taatcacctt ctctttaact 240
ttccagcttt tattgacatg ccacaattaa caacacacag agttttcttc attcttgatg 300
ttctttcact ctcttttctt tttatatttt ttcttat 337

<210> 32653

<211> 357

<212> DNA

<213> Glycine max

<400> 32653

agcttctatt ctgtgtgtga catctatgct attgatgggtg tagttcagcc acgcgacatc 60
tttggttaata tataatgccc tcgttatatc ataatacct cacaatcctg aattataaga 120
tggtttgaga gaatgaatgt attactttat ataagcttaa tgatcaagtc ttagatgtag 180
taattattga tatctctcca tctcttgct taattattct ctcttcaaat atttatgaca 240

tatagttatg ttattgatga aataagagaa ataaaataca gaattttaaa atgagagtat 300
aaagacgtga tagattgaat ataattaagg aaaccaatta tttttcgtaa gagatat 357

<210> 32654
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32654

agcttgtatt attacaccat agctctgcac aaaatgactc taggatgtat atacttgtac 60
tgatttattt gctataatat ataatacata catattttgc ctatcaaaaa aaaatccttg 120
actttctcag gcaagtctta aaagaaagta tcacacgggc taccttgttt taagaaatac 180
ctcaataaga aaaaccacac taagtcttac cttggcaaca gcataaacac caaaaagacc 240
cgtgtccttg taattggtgt tgaaagccat aatgctctca gcaacttcat taatgccaat 300
tcgctgtgct aactccgaac tgtttatagt caaaatgcat tcagttagta tcaggagag 360
aacttttctt ttntcaggaa ggggcgttca agtcacatac cccatgtggt ttcca 415

<210> 32655
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32655

agcttgtgaa atgtctctca atcaagttct tatgaaaata aagaaatcgg aatggcgtga 60
taaaaatatt gagattctgt tgaaagtatg gatagaagag gtgaatgctg gaaataaacc 120
tcacaaccac ttactaagc ttggttgggc aaatattaca gaaaagttca ataagataac 180
aaatttgaca tatgagtata aacaattcan aaataggtga gattctttaa aaaaaaggaa 240
tgacaattat gggctaatta agcttattgn gaaggacact agtcttggct gagacggaga 300
caagaaaacc attgctccta gtgatgaatg gtgggaagcc aaaattcaag tgtgtactat 360
tcaactaaaa taaagttagt tctagttgca tgcattgaa ctctcttcag t 411

<210> 32656
<211> 381

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32656

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tttcaatgaa ctcgctaagc gagccccggcc cactaagcga gttcatccat tnttggtgat 120
cttttggggtt ttttgatgaa cacactaagc atgccctatc ctactaagcg agtgtatcat 180
atTTTTTTTT aatttttttg caattttgta tgaacttgct aagccactgc actacggcctt 240
agcaagcctt tgaatgtctg tatttaattt ctacgttcgc atgaactcgc taagccgacc 300
atctgcgctt agcgagtata cttagctgag tctgatactc agaggctttt tgcattcttg 360
gtgcgggctaa gcgagccatg c 381

<210> 32657
<211> 405
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32657

agcttttttaa nggataaaaa taaaaacaaa atattttggt atggactaaa tgaaaaaaga 60
attataggaa caaatgaat aaaacgctaa atcgcatgaa acatatattt aaatctaaaa 120
ataataattt ttagcaacat ttaataaaaa aattaattgt atacattaat tacatgtaat 180
aaatttatta ttttatttat aaattgcatt aattaatatt caaatgcttt aaattcaaat 240
ataatcgat attcaattat acaatctatt tatttttaatt tatcttttat gggatataat 300
tgatcattaa attaattagt tcaattatac aatttcaaaa aatctaatta tttctgggta 360
aaatatttat tggtaacata attaacatat atatcgggta taatt 405

<210> 32658
<211> 411
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32658

agcttttatat ctanggtaaa gcagaagagg atataccctt acgggaatca ataataggaa 60

aatcaaadc ttagttctga ataataatga gaatgaagag aggaatttga tgatagagat 120
 gaaagaatga atacaaactt gcaactgcgc ataggaccaa tgactagtgg ttgtgactcc 180
 ttgaagctgt gcgatgctct tttctgtcca ctccaacgta acactttcaa accctagatt 240
 ctattatatt tatttgctta taaaagaaaa agacacttct ttttaagatgg ttttcaaaac 300
 cgtcttataa tggtagtttc taaggcagtt tttgcaaaac cgtcttagaa taattgtatt 360
 tatttataaa aatgtcaccg tgtttcttcc tagaatgatt ctctatcaac c 411

<210> 32659
 <211> 411
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32659

agcttttcgg atntggtctt cgccagtgaa aggatcgatg tgggttcgaa aagaggcaat 60
 ttgatcatcc tactangacg actgagaaaa ctggggcaaa tgaaaagggt gagaaagagg 120
 gagaaaccca tgctgtgact gccattccta tacgaccaag tttcccacca aacccaacaa 180
 tgtcattact cagtcaataa caaacctcct cettaccac caccagtta tccacaaagg 240
 tcatccctaa atcaaccaca aagcctgtct accgcacttn caatgacgaa gaccaccttt 300
 agcacaacc aaaaaaacac caacaaaaag gaattntgca gcanaaagcc tggtaggggt 360
 cacccanatt ccgctgtcat atgctaaaact tgatcccata tncactcaat a 411

<210> 32660
 <211> 393
 <212> DNA
 <213> Glycine max

<400> 32660

tatgcgaggt gctggaatcc aagatcgggc catgctcatt gttgtctaata acaaagcatg 60
 atgatgggag gcacaacaac aaatgttgta tatgagataa gaagctacaa ttcgtccttt 120
 gtaatcacag ctttcctaag cccaatgaac aaacaaacaa cgaaatttaa caaatggaga 180
 aaaggtttta gaataacaat gtccaagcag atgaatggac ttattggaaa ataacatgg 240
 atggaagaat gaacatatac taggggaatg aggtccatac catcaacttc atatcacatg 300
 aacagaagag agggaccgtg gaaatttcag cctcaaacga caaagacagg aaatggatct 360

accatattta catttcttaa tggattggag ata

393

<210> 32661
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32661

gcttcacgca ttcttgaccg gatgcaagag acatcctcaa gcttagttat tcttgactcc 60
attgcacgca agcgcatact cacttgacga ttgagagtat tgaagccttt tacgacgtag 120
gctttgaaga ctataccacc gctgcataat ccttgactaa agagacgagt cttctacttc 180
atgtacttct tcaccaacat ttctagcaca cttcttcacc caagagccat catgcacatt 240
tatataagcc atggatgcta tgactgaagc gcctgtatag aatgatctct tgattggaga 300
ctancgttca cactcacgac ggatgctcga gcgctgaagg ataatggtca caagatgatg 360
atggagcaac ggagcattcg atgcgatatg cttatgcatg tgacatatac catggatgg 419

<210> 32662
<211> 370
<212> DNA
<213> Glycine max

<400> 32662

agctttgaat cgattacaca catactataa togattacca gaagagattt tcagaaaata 60
ttctcaattg gcacatcttt tcatttggtt cttgaatggc tatcaaaggc ctatatatat 120
gtgacttgag acacgaattt gctaagagtt tttaagaaaca aaaaggctct atcctcttaa 180
aaagcaaaat ccgtttatcc tcttacaat tccttggcca aaacacttgt gattcaataa 240
ggaattattt gagtgcctcaa attgctcaat ctatctcttt caagagagat ttcttcttct 300
tttcttcttt attctgaaca gggattaaga gaccgagggt ctcttggtgt gaaagaattc 360
taaacacaaa 370

<210> 32663
<211> 420
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32663

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gaggttttat tatgagttga tgtgtttttt gcaagtgcgg ttagaataag aataagaatt 120
gggcttttgt gcaacagtta gatttttgatt gatggaagct gagtttgggg ggaagaatca 180
gtacttgtat ggacctgtgg tgtctggaat gaagaaagct gttgttggga atgggaagag 240
gagtttggaa tgggatctga atgattggag atgggatggt gatcttttca ctgctcaacc 300
actcaattca gtgccatcag attgtacggg ttgccagttt tttccacctc atcctgaaat 360
tcctgcaaaa natgctaata catctacca ccaattgtct tcttctgtat tcatcttacg 420

<210> 32664
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32664

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tgtgtctaaa tatgtggggc aattctgggt tgccttcttg cttggatggg ttgaattggg 120
ggtttgtatg agatggccct aggcctataa tgtattttga agcaatgggg catgccacat 180
tgtccccgtt ctcttgctat tgatgcctaa acgcgcgccc accaagtgtt cggtgaaatg 240
cctcaatggc attagcgcgt gattcttgta aggaacaac ctatgggaca atttggtttg 300
cacatgtttt atattttttg ggacatgtat tcagtttctg aagggttaga gtaattgtcc 360
cacacatata ctatgcctat gaaccaaagt ttctatgcaa gagaacac 408

<210> 32665
<211> 418
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32665

agcttgtagg attatggggg acccatcaca tgttggtacta ggtggcgggc gggcgatggg 60
gcacaacagt tttccacata cacaaatcgc gcataaaccc accatcccct gctgcccacc 120
tccaactgag ctacgtacg cccacgtagc ccatatcctc gtttctctca acaccggggtc 180

cccatcaatc ctcccaagct ttccccaaca tccaagtaat tcaacattca aacaacacaa 240
 actatcacag ccaagaaaac agggcaaagg cagaaaactc tgcccaaac accgaccaa 300
 atcacagctt ttctcactta aagaccccag taacaattcc ttcgttccgg ttcattaacc 360
 gttggatcga ctcgaacatt ntactggaag tctctagtagc ataagcctac attctgac 418

<210> 32666
 <211> 410
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32666

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 atatggaaaa aggattctac accaacaacc acccttggtc agaggcataa aatatgatta 120
 ttggaagcaa caaatgatat ctcaacttga atccattcat attgacctat gggatgatgt 180
 ggaaaatgga aagtgcattc catacgatga tcagttaaata gaaattccta caagttggtg 240
 gatggagaag caaaaactta gattcttgct cgactccaag gctcacaatg tgatgctatg 300
 tgctctatca gaagaggagt acaccaacgt acatggctta taaagtgcac acaaatatat 360
 gacactctag ttgttacgta tgaacgaacc tcacaggtaa agaggagtaa 410

<210> 32667
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32667

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 caaaacaaga atggaccgct gaatgtgcat agaatgaatt gaaagattca aatttgaaaa 120
 cttaccagct gaagaacaaa gaacaacgaa gaacaaaaga agaattggtga agaacatcca 180
 tggaatcgat cagcaaaatg tctcgaaagc gttacggaag cacctcggct tgaattgtct 240
 ccttctttct tcttctctc actaatttca agtgaaagct tattgcacaa caatgttgga 300
 ctcttaaact cagccccctc tccctatnta tagtgga 339

<210> 32668
 <211> 115
 <212> DNA
 <213> Glycine max

<400> 32668

agcttgtata atattcttta ttactttaat ccaagaaagt tagtgaaata ctctcttgga 60
 agtagattta gatcacgcaa caagaatgaa ggctcctggc cacaatctc ttgct 115

<210> 32669
 <211> 409
 <212> DNA
 <213> Glycine max

<400> 32669

agcttctagc atttgctcta tcctagacga aggcgcattc acagaagcag caacaacaac 60
 aagaacagtt gactaatgag aatgaaaggt gagattgaga agaagaagaa gggagtacca 120
 attccaatgt agtggccaat ttgagcgtcg acccatttat cagcgtcgtc atctccacag 180
 tacaagttgc acaccttgaa tgaatgggag tgagaataag aacggcgaaa ggaataagcg 240
 aattaaatgg gaaaaagcta caacgaactg cagcgtacgg gtgagcgaag atgttgatga 300
 gagccattct ggcgaaatca tagagggcgt tgtgtgtaga ttgacttct caccgccaat 360
 aatcctttct cttcttcaca cttcaacctc aactatggat tccacacac 409

<210> 32670
 <211> 280
 <212> DNA
 <213> Glycine max

<400> 32670

gcacactaca tgattgcaca gacagaaaat gcgcctattc taatgatacg gagatctaca 60
 attgcaacag tgctctagaa cgtactggta acgcctttcc tacgatgtca tagcgacgcc 120
 caccattact atcacgcatg ctgcacagaa cgagaatgag acctcgatt ggatcacacg 180
 gcgatatcat cagacgagaa catgcgcctt agagccaacc atcggaccaa tgcacgacg 240
 tttagcgaac tttttctgac ttatagaacc catataacca 280

<210> 32671
 <211> 407

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32671

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agaagattct ccctttntca atgacaactc agccttggtt catgttatta atgcatgcat 120
ttcacttggga tggctggatc aagcacacga tctccttgaa gagatgcgtc tagctggagt 180
tagaactggt tcatctgtat actcctctct tttgaaagca tattgccgag caaatagagc 240
tgcagatgtc acatcacttc tgagagatgc taagatagct ggcattccagc ttgactcaag 300
ctcttatgag gcaatgattc aatccagggt gctccagcaa gacacacagg gagcactcca 360
actatttaaa gagaggaaag aggctacaat tccaaaagtc actcaac 407

<210> 32672
<211> 467
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32672

ccgacacacc ccaccccacc aaacccaccc aaacacatac acccaacann cccggcggcg 60
cccgtganct ttgacctca gacacccggc acaccaccgc cgcgagccca agagaccgca 120
gctgaacctg taaaaacccc acacccaacc gggaaaaccg cgacacatgc ccggaacaga 180
ccaaagcacc ccagaagac agaccaggac ccggcaccgg cccgcccacg cccaccgca 240
caccctccc accgcggccc ccgccgacac ccaccaccaa cccactgcgg ccacaccacc 300
gccaacgcca accgcgggaa atacccaca cccccgacc tccccccac gacaaccgg 360
gaggaccac aacgccccca gcaccacacc caccatccca cccaccacac accccaaca 420
ccccgcaccg cccccccac cccaccacca cccccgccc acacacg 467

<210> 32673
<211> 405
<212> DNA
<213> Glycine max

<400> 32673

agctttttaa ggagagcttg aaaagacaag agtggtgaaa gagaagctga agacggcagt 60

cactatgggc aggaagaggt gtgatgagtt aaaagatatc aacatgacca tgggtgaagc 120
 gtttagagtgg gaaacaaaaa gggcctgaaa ggaagaatgg agcaggaaca agttttgaag 180
 ggctatgtgg ggcagcagta atgagctcaa gcttagaaaag gtcgagaggg acaaatcaag 240
 gatggaaaac atggtgttag aggataagtt aaagtcttgt aagaggtcga agataatttt 300
 gatggagtag ttgagaaaaa tagaagagaa tatgttgata atcattgatc aatataagga 360
 gaaggttaacc tggctactag tcatgggcat atgctggaag atgaa 405

<210> 32674
 <211> 409
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32674

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 catatgctca catgcacaat ttgggaggat ccatggatca tgatacgtag agaaactgtt 180
 atgtatactt ctggttagca tccagactca aaagatttgt ggatgctcct attaacctca 240
 agctgcataa gcactctctg cccaactgaa acttggtgtt ctcaatgaag catgcgtctg 300
 aggatgacgg tgactatgct gtcttgctcg tgacaaagca ctcttaatat gagctgcctc 360
 tgatacggac ccgtggaacg cacttctctn gtgtgaccca gattacctg 409

<210> 32675
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32675

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 aacaaaaaaa aaaccattt aaaacaaaact atgatccata aaatttataa ttgtttcttg 120
 atgcataaaa atagtactcg cacagggtta atgtaccata cactctagta acaatgaact 180
 aaaaggttca tagctcttac aaaccataaa ggttctctca caattcataa gagataaaag 240
 tgatcaaaag attattttct tacaaaagtt acagccctat ttatagcttc ctaatatata 300

tcagtatgaa aaggtacact acgattacag taaaatctac ctogatcatg gtaanaaat 360
 agtgacgttg aagctcttgc gcattgtgga tgcactgtgg ccctcatggt ttaccacaa 419

<210> 32676
 <211> 413
 <212> DNA
 <213> Glycine max
 <400> 32676

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 ggttaaggat caaagatttg attaaattca atgaggcttt gcttgctaaa tgggggtggg 180
 agttggaaaa taatcagaat cagttgtggg ccagaattct attgtctaga tatggtggtt 240
 ggagggattt gatttctgat aggaactgca gtttagactc tccttggtgg aaagacctca 300
 aggttatctt caagcagcag cagagcaaca caatttgcaa tcacctgaag tggaagctgc 360
 gatcgggaga taaaattagt tcttgaaggg ataagtggct acatcataat ctg 413

<210> 32677
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32677

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 caccttttgg gcgtgttctt tgaaagatcc gtcccccttt ttgcaaagt tctgtagttg 180
 catcctatcc ggaaccatat caaaattgta ctaatactgc ctaacaaagg caaccattan 240
 gtccttccaa gaatggactc gggaagattc caagttagt taccaggtaa cagctacccc 300
 agtaagactt tcttggaagg aatgtatcag caattcctca tcttttgcgt attcccccat 360
 cttctgacaa tacatcttta gatgggttctt gggacaagta gtccccttgt ac 412

<210> 32678
 <211> 414
 <212> DNA

<213> Glycine max

<400> 32678

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aatgagattg gactgttggg tatcatttta atgaacagat ttcctattct gagtattctc 120
tttgccaaga caccagctgg attttgtctt ttcattctaac atgtagcaat tccccaccct 180
cttttcttct tccaggaaaa aaatgatcaa tttttgtac taagaaaaat gtgcaaatca 240
ttaatgagtt tcatgttgct aggtttcttt tgtgattatt tataggagga tttggctcct 300
tacaagtgca gagtgaatt gaagatgctc tcgaaattgt gataaaacag atgcacatgt 360
aaaatacatt ataaaattat taataattgt aactctcgat tttcaaatca ttga 414

<210> 32679

<211> 538

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32679

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gcgcccgggtg ancctagaca tcgaanacaa acganaancn nacccggaac cggagcaacc 120
ctacagcaga cagcacgct tgcaagcttt aagaaacacg gccctaaggg cccaaccgcc 180
cactgagggg aaccccatat ctagagcccc caccctcaac ggagcggggc accactaccg 240
gaaaacaccg ccgccaaccg ccacacacgc catccaccca aagaccccg aagcactcaa 300
acaacgaccc aatagacccc ccatacagcc cggaactgca acaacacaca accccacaac 360
cacatgccac gaggaacaca cacaacaaca ccacctact tacagcgcca ccacaccata 420
caccgcgcca agaaagacga aacacgacgg ctcaaaccga aaaccgcacc gacacgggac 480
acaaacaaga ccacacaacg cccagacgc acaacaccac gaccagcacc cccccccc 538

<210> 32680

<211> 399

<212> DNA

<213> Glycine max

<400> 32680

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gcttccattg ttcaatttcg agcgtctcga tatcttatgt gcctgaatct gacctccgtg 180
tgaaaagtta tgaccatttg aatttctcga gagcttccgt tgttcaattt cgagcgtctc 240
gatatcttat gcgcctgaat cggacctctg agtgaaaagt tatgaccatt tgaataactc 300
aagagcttcc attgttcaat tacgagcgtc tcaatatatt atgtgcctga atcggacctc 360
cgagtgtaaa gctatgacca tttgaattgc tcaagagct 399

<210> 32681
<211> 231
<212> DNA
<213> Glycine max

<400> 32681

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tttaaagtga ggaacgctga gcttaatacc atcgatctgt gattgactag gaacaccatc 120
atctccctct tgtgctcctg tcttctatac tatgatattt attctccatt cgacacatcg 180
cttcatggag cgcacatcat ggctgtccca ttaacctctc catatgatgc c 231

<210> 32682
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32682

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gcaacatgac gaatctggaa agaaagagcg cgctgtttac tacataagta agaagttcac 180
gacctgtgaa atgaactact ccttgctcga aagaacgtgt tgtgctttag tatgggcatc 240
ccatgccta aggcagtaca tgctgagcca tactacctag ttgatatcca agatggaccc 300
ggttaagtac atctttgaaa agctagctct cagcgtggca agtcctgcta tccgagtttg 360
acatagtcta ngtcacccaa aaggcgat 388

<210> 32683

SECRET

<210>	32684
<211>	417
<212>	DNA
<213>	Glycine max
<223>	unsure at all n locations
<400>	32684
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tatgacatcc actccacaag gt ttgaagta gaggagacct tcaatcctat tacgcaacgt	120
ggcggacaaa agtgggcagc taacttaa ac ggtcattatt gtcaatgcag aagggtattct	180
gcacttcaact atccatgttc acatatattatt gcagtttgtg gttacgtgag cctgaactac	240
taccaatata tagatgttgt ttatacaaat gagcacatct tanatgctta ctccgcacaa	300
tggtggcctc ttgggaatga agcgactatc tctccttcta atgacgcgatg gacacttatc	360
cctgacccaa ctacaattcg tacgaaagggt cggccaaaat caacaaggat aaggaat	417

agcttcgggg ttatttttgg tgaaggacaa gggttgatgg tgaagttgat gtgtgggtga 60
caatcatgaa ttgacaaagt ccttagttgg acatccatac gttggatgat tgactaaqga 120

tgaaaaaata attattgttg atatgacaaa gtcaatgatg aaaccaagaa acattctgct 180
aatgttaaag gaacacaatg ccaataatta tacaacaatc aaacaaatat ataatgtaag 240
aagtgcatac cggtctttca ttagaggaag tgatattgaa atgcaacatc taatgaagct 300
tcttgaatga gatcaatata tttattggca tagattaaag gatgaagatg ttgtacgtga 360
tatcttttgg tgtcaccttg atgcagtga gttatgcaat gcatgtaatt 410

<210> 32686
<211> 400
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32686

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aaaactggtc atgcatgcac ctatgcggac actcaagtgt caaatcttta tggcatgtg 180
atgctagggc tcaagattcg tttcctctat tttaatcaac ccaatgttnt caaaatatgt 240
tcttttatca atttgtgcat tcatccgagt ccatttcggg cgcccgnga aatttcacag 300
cattcacctc tcagggtgag acacattctc caaaaattgg ttatgatcaa tgaactcttt 360
cacagaacag ttggaaatcg tttcttttca caagcatgct 400

<210> 32687
<211> 413
<212> DNA
<213> Glycine max

<400> 32687

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gaccaccgct ctttcttccc acaatgcttc tctttatata tgcctgagtg ggtttatagc 120
ctaaaccata cttcccacga tttccttttg catttatcaa gctagttatg ccgccgttgt 180
ctttgcttaa acccattccg ggctcgtaac cgttcccaa cataactcgg gccatcatta 240
ttgctgcatc ggacaggcaa ggctgccag agaaggagtc cacggaggaa atgctgacca 300
cctcaaaaga ctggaaagcg gattctaacg attcttctgc ggcttctaca taaggcatag 360

[illegible]

<400>	32688
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<400> 32689

<210>	32690
<211>	408
<212>	DNA
<213>	Glycine max

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tcaaggcaga ccaaaagaaa gcacaacagt gttatgcaga aagcctgaag gtaggaccat 120
atcctcccac cagggagctt gccaaagcctt accccacagt ggctgaaggc actcaagtca 180

<210> 32693
 <211> 386
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32693

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 gaaatcccaa agagaaaatg tccggttgat tttcctctct attttactaa aaggtatatt 120
 tttgttatta tattattatt ttatctcttt ttgatttcca acgtgggttac ggcacgaccg 180
 aacggtcgaa atttatttta accaaagttt acggatcata caattcaaac gttcggcgga 240
 aatttatttt atttttaagt taagcgagaa atgacttgag taaaatggct taagcacgtc 300
 aacagggggg ataaaaagta catgaaatga gaataaaaat acacgaaaca caatgtggac 360
 caccacgggt acatataatg aatcga 386

<210> 32694
 <211> 265
 <212> DNA
 <213> Glycine max

 <400> 32694

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 ccccgcgctc ggactctcag accattatga tagctcgca tgataccatt actgttgctc 120
 ctaagatctc tgtacttgat tgacgccgca tcccatgcct tgaaaactgc atggagtacc 180
 cttccgtcgc ggtcactaga aacttggtgct atgaaacgag agatgtacca actgacggcc 240
 tacatctatg ggatatacctt ccatg 265

<210> 32695
 <211> 340
 <212> DNA
 <213> Glycine max

 <400> 32695

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 taaacatgtc gaacatacat cggtcagaac tgcagctttt agaaaatttc taccaacttt 120

gactttgtta atgctattcc aagagatcaa agcacgcac aaagcttaac cattaagcaa 180
aatgaacaag gtcatttggc agaagctcaa atcattgac catgaaacta tgacagctta 240
tccacgaact agaaactata cctcgaagct taaccaatta ccagaagtaa caagacttaa 300
ccgtcaagag tagaagccaa gcaacagttc aatgcttaac 340

<210> 32696
<211> 412
<212> DNA
<213> Glycine max

<400> 32696

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aaattcaata ttttttggga ttaaactggt agcacttate tttcgattgc aatagttttc 180
ttataaacta cctttaaatc tagttgtttt atatatattg tacatttact aatgttgctg 240
tttaaataatg aaagattcat ccatgattct gtaggttttg aggggtgttt gttagatcca 300
aaaacaaagc caaatgggtc ttttcacaaa gatttctaac cccaaattcc cccaggctag 360
caacctgctc gcctgggcta aagatcttac tttagcccta agcaagcaac tc 412

<210> 32697
<211> 415
<212> DNA
<213> Glycine max

<400> 32697

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atctcatgat acaatttgat atataggagg atcacacaaa agtcatggag gagggacctt 120
gatgcaatcc taccocgcac gggcattgga tagagaagac tccaagtaga ttgcgctaga 180
gctactaaag aaggccctag gatctcatga acctagggt agattcttta gcccatgggt 240
caaggttgga tccactattc tttgtaaatc ttagaatagg tttttcttc ttttgggct 300
tgtatttttg tcattctagt agtatagggt tctagccttg tatttcaggg cattctgagt 360
agtctttgta gtacggactc tcttttttgc gtattttcat gtattcttgg aatga 415

<210> 32698

<211> 370
 <212> DNA
 <213> Glycine max

<400> 32698

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tgGCCatcat ttctgcccc aatcgcgaaa ggagagcatt ttCGgggtcg tgaagcgcg 180
gtctacgagt gggacttcga aatttcatgt ttgggtgaac ttctttctcc tttgattttc 240
gtgggtatgg ggttttggga gacatgatgg gtagttttgt tagttctctg cttcatgata 300
gttattttgtg aagactcttg ttgaaagctt gttgaaattg ccatgtttgg atgagttaaa 360
cataccatt 370
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<210> 32699
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 32699

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gtgctcacgt gaacaaaact gcgcagaacc ctagttgact ctgtgcagtt cttctctcta 120
tcacagccaa gatggctggc gtcaaccctc aagttgctgt caccatcccc aagcgttgta 180
acctgcctaa tcgccctgtt ggttacaagt gtggacgtaa gtgcgattaa ttaataatta 240
ccccttcttt atatatacaa aggagagtta ctcaogtgac actactttga taaagatgct 300
ataaaaaaaaa gactattcaa ttatcaaaat tgaaagaaat atacacatat gtatatatat 360
aaatatatat atatatatat gactctttct atgataactc ttaagcttaa cta 413
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<210> 32700
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32700

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tatccagcaa tcgataatgt ggatggattc agcttctgaa cctggaaata tctcaaagat 120
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cgatcttcgc attgctgata ttcaagatca tattcacaaa tgtaagcaat gtaactcaag 180
cattttctgag tactataccc gtctaaagat tatgtggaaa gaactagaat tgcatacatg 240
catgttgctg agtatatgtg ctagctcctg atcttngggg ctgactgtca cactcgacag 300
agaacgtgaa gatgactgtg tgattcattc tttgtgtggc ctcaatgatg tctatgcacc 360
tgacacgctt atggaacctg tg 382

<210> 32701
<211> 389
<212> DNA
<213> Glycine max

<400> 32701

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acctagtaaa gcttttgcac ccaacataca atggcgtatg cgcattctgtt tgaagagcat 120
cgtatatatc tgcattgacat tcccgcacgc cctcttgccc aagatcacgt atcatgtctt 180
ccatgagatc ttcgctttgt agatcaaccg gatgaggtgg acatgttgct gtatgaccaa 240
ccaactcacc atgccatata cactttgtgt acgtcgggct aaagccatca catatcagat 300
gcgatctaata gtcattcaaac gaatgacgcc tcccgtagaca catttaaacac aagggcagaa 360
gaagttgcca tctgtggttg ctgaatgta 389

<210> 32702
<211> 404
<212> DNA
<213> Glycine max

<400> 32702

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aaggaggcac ctttgggata acacatgtgg catccctaac ttaatgactg ttttaatagt 180
aataaattaa atagcagaaaa ccatggaaat ttttttttgc actgttattt atttcacgat 240
aattaatttc agaaggaaaa ttatcactat agagtcctga gtggccagtt cacaactcta 300
ttcggattca tttctttctg atcactcata acctccaaac ttttttctt tttctaaaaa 360
aaataccagc catcatttta tgtcatcacg tgagaaataa taag 404

<210> 32703
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 32703

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 tcatgagact ccaaggaata agatcatctt tcggcatttc ttcaaaaaac tgctgcgtct 180
 cagcaatctc tccagacttg gttaacaatt caagcagcac agtgccaaca taaagatccc 240
 tatcataaca cgctttcaaa gcacatccat gaacactttt cccaacctca aaattgttcg 300
 gtctaaaccc cataaccctc atctggcaga caagtagcaa cgaatcttca tggcagtaat 360
 tctcagcata gcaagccatc atcccagtc aagataccat gcccttataa ca 412

<210> 32704
 <211> 404
 <212> DNA
 <213> Glycine max

<400> 32704

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 ctgttccctca aattcctgaa aaatgcaaag atccaggtac attcagcata ccttgtatta 120
 tagggaatag taagtttgac aatgccatgc taaatttaag agcttctgtt agtggtatgc 180
 ctctgtctat tttaattct ctatctctag gtcccttcca gtcaactgat gtggtaattc 240
 atttagctaa tagaagtgtt gcctaccctg ttgggttcat agaagatgtc ttacttagag 300
 ttgggtgaact gattctccct gttgattctt atattttgaa tatggaagat ggattctctc 360
 aaggatcagt tcccatcatt ctaggcagac cctctatgaa aact 404

<210> 32705
 <211> 392
 <212> DNA
 <213> Glycine max

<400> 32705

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cacccctcta ataactaagc tcacctcctt aagaagcttc ctttacaaga ttcttacaga 120
 agtgagagct tagttacact cacctctcta atagctaagc tcacctcctt gagatgagaa 180
 gctagagctt atctacacac cccctataat agctgagatg acgccgcatg ccaaaataca 240
 tgaaaataca aaaaaagtcc ctactacaaa gactactcaa aatgccctaa aatacaaggc 300
 taaaacccta tattactaga atgacccaaa tacaagccca aaacgaagga agaacctatt 360
 ctaatattta caaagaagag tggatccaac ct 392

<210> 32706
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 32706

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 gttggtaacc tgtttaacaa cttgttggac ctttctattc gcaaaagatt ctttccagct 180
 atgttctttg tctatctatt gaattgtaat ggacagacta gtataattat caaatcattt 240
 aaataacgat gtttttttag atcattatag tcagagacaa gtaaagaagc gaatcaaac 300
 tatctgggaa ctcaagatgt gatgac 326

<210> 32707
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32707

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 tctgaagatc atgtgcctga acaaccctac tgaaggcagc tgaacaaaga tattctgtta 120
 cataatgcct tccagccaag actgtatcta gcacaatggg cagctccttg ttttcttcaa 180
 atccagtcct gtatgtgcaa taatggatga gagcaaatta tactcaaata caatgcacgt 240
 ctatttaaaa tacctaaaga gccagagtga agagccaaaa ttcanattcc acaataaata 300
 aatactgagt caaaatcacg atgcaattag ttaaaggcaa cacatccaat agttgacggc 360

<210> 32708
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 32708

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 taaatagttt aaaagggtcat gaacagtcct catattacgt attgaataaa cacttgagct 180
 tattttacca gtggatgccga gaagctcaat gaagtaaaga agagagaaaag attaacgtat 240
 tactgtatta cagttagaat atcaaagtaa acttttaaca ggtagagaaa caaggcgaaa 300
 gcctattaat catttgacga acatgatata ttgttattat ataaacaatt gttcttatat 360
 aaacaattac ttcacactat ataacatat 389

<210> 32709
 <211> 397
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32709

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 agcattagga tcgcaacgca attccaagaa ttctaaccgt tggaaattgt gatatgatgt 120
 ctgggctgag ataaatatcc atcgcatcgt aaccttttcc tttctccgag aaacgcagag 180
 ttgtcttggt aaaactacaa tcccggtttc gttaaccgtt agattatcgt gaaattctta 240
 tattttgttc gtgatccaat caccgcacacc tncaccattg ggatttgac aacagtgtct 300
 atggagggag aaatatgcat cacacgaagc agtatagaat ggaggcttca atcgtttctc 360
 tatctctcta atgtttggga actctatcag agcaatc 397

<210> 32710
 <211> 415
 <212> DNA
 <213> Glycine max

<400> 32710

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 acaacctca ctctatgggc taactgttaa aattgagtta ggtccaaact cgcattctag 180
 atggtatcag agcctatctt agatctatta acaggctacc cgccatgtta tcagcgcacc 240
 atacccaaaa gtgctgctgg gcatgaggag atgtattgag aaaaacctcg gtccacatt 300
 gattaaagat aacgtcaaga tagattatat aattgaggtg caacctcaa gttgaagtat 360
 gtatgtcatg tactaagctt cttataaata aagtcaacct gaggccaagt gattc 415

<210> 32711
 <211> 404
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32711

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 atgagtttat gagcaactca agattcaaca gatgtgacat ggaccatttt tgctacgtta 120
 agaaatatac taataactat gttatccttg tcgtgtatgt tgatgacatg ttgatcgag 180
 gatctagtat ggcagaaatt aacaagttga agcagcagtt ggcaaaaaaa tttgaaatga 240
 aggatcttgg tccaactaaa caaatccttg gtatgagaat tcttataaac aaatcanaag 300
 gaattttana gctgtctcag gagaaatata tacacaagtt gcttgacagg ttttaccttg 360
 aagattctaa gaccaggaat acccttttgg gatctcattt gaag 404

<210> 32712
 <211> 414
 <212> DNA
 <213> Glycine max

<400> 32712

tttttgcatt cttttggagt agaaacatgg gaccaactca ttttatttca aaaaggaagt 60
 catatctagt caaggtctga gagaccatac aagtttcta acgatttcta attatgtggg 120
 ccattaagtc tatcatatgc tgacaatagc cgagaagccc atgaatctct tcgggggagg 180
 agtaggtgtc tgccatcgcc ttggccttgg ctaacaatcg gggaagttct tgactcccgt 240

tcaacgtaag agcaaaccga tccatccaca tgggtgcctc ttggtgtaaa gagtcgatca 300
cccttctct agcctctttt tccgcatata cttgcgcata ctcacccgcg attctatgct 360
cgtgggcccgt ggctagacct aactcttctt ggtacttggc gatgatagct aaca 414

<210> 32713
<211> 398
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32713

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gaacgaaatt gaaggaagaa aaagggagag aagttgaact ttgagttgtg ttcacaaga 120
ctctcattca tcaaagttac aaaaagtgtt acacatgctt ctatttatag actaggtatc 180
ttccttgaga agctttctta agaaaacttc cttgagaagc ttctttgaga aaacttcctt 240
gagaagctag agcttagcta cacacacca tctaaaaact aagctcacct ccttgacaaa 300
atacatgaaa atacacaaaa aagtccttac tacaagact actcanaatg ccttgaaata 360
caaggctaan accctatact aatagaatgg ccaaatac 398

<210> 32714
<211> 408
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32714

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gtccatcaag gctccattt cagaccaa atcgacaacctt tgtagctgt tttgagcat 120
aactaaaact gtgagtcatg ttagggcttg ctttctctt gtttgaaggc aactctattc 180
tctcccttgg aaggcacggt tctctgttca acgtaacaa aaaaaatccc tgttttgcc 240
tcattttgtt tgaccatatt tcagatttct ctggcaattt tttaaatttc atatatttc 300
cctacatcag aatgaanaat ggggtcaaaa cctgtagtc attcaaagaa tgacacagtt 360
ggttgctgct ctgctcctt gcaccacttc tctctgaatg atgactta 408

<210> 32715

<211> 400
 <212> DNA
 <213> Glycine max

<400> 32715

agctttatga cagacaatga acctttcaag gcttcaattt ttttactttc caagaatggt 60
 tttttgatta ttagactatt gggtccttag attttttttg agtcatgaag cgtgtttctg 120
 agggcgatgc aagggtttgc ttataagatt gtggtaatga tgaagagtga gcagctattt 180
 gagtctcagg atggcccat catactctct caggtaaact tttgaggtct ttcatttcat 240
 agcatttaat tttaatcttc attgctttct cttcatacca ctaatggcta tgacttatga 300
 gctcttact ctagatctag tttaaatttt aatgatgcat tcatgattcg ccatgtgttt 360
 gctgctctag attgagaatg aatatacggc acaaagtaag 400

<210> 32716
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32716

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 tgatgaatga gagtcttgag agacacaact caaagttcaa cttctctccc tttttcttcc 120
 ttcaatttgc tgctcccccc tctctccttc tctctttctt tcttttcttc cattgaagca 180
 tctctccaa gcttcttctc caaggctcat cttgggtggtg aagctccttc ttccattgct 240
 tattccctag tggatggcgc ctctctcac ctcttgctt ttgtcttcgg ctgcatcttc 300
 atgggtggaaa atcaccatta aaggacctca ttgaagctca nagatccagc ctctatagaa 360
 tnccacaag caagctctca tcactaatga cactgtcaac tctgat 406

<210> 32717
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 32717

tgcttttgta ccatgatcgt catcaagtga tagagtctac aaatcttttag aaaacatgca 60
 aaatccaact ctttactca attaaaaggc tatactgcta caagacaaaa ctagcatcca 120

aacgtgagtt cggccaagaa aatgcatgaa actgacacaa aaactcacac aaaatattac 180
 ataaaagtgg tttatcaaca ggcacgaacc acacgagcaa taacacaagg gtgagcttat 240
 aaaaacaaac atactaaaac aacaatacaa cttaacaatt caagcctaac cacatactaa 300
 aacaacaata caacttaaca attaaagcct aaccacatac catcgtatat agaacataac 360
 atgcagaagt catgtataaa acataaatct tagaactaca taatagag 408

<210> 32718
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 32718

agcttgattg aactcatgtg ggatcagctg aagcttgcca gcaggacacc aattgtgcga 60
 attcagtcaa gctcccatta cataccacat agacaacctc acttaggtgc cttgacgcat 120
 aactaaaact gtgagtcattg taaaggcttg ctttctctct gtgcgaaggc aactctattc 180
 tctcccttgg aaggcacgt tctctgttca acggtcacac ataaaatacc tggtctgcca 240
 tcattttgct agaccatatt tcacatttct ctggccatta tctaaattct atatattctc 300
 ccgtacatca caatgaacaa tggcctcata accctttact gattcagaga atgacacagc 360
 tgcgtgctgc tctgcctctt tgcaccactt ctctctgaat ga 402

<210> 32719
 <211> 69
 <212> DNA
 <213> Glycine max

<400> 32719

gccgcctgtc tgccttcttt gtgactgtct ggaacgcccg cgaggcgcga tggagatgat 60
 gactactac 69

<210> 32720
 <211> 109
 <212> DNA
 <213> Glycine max

<400> 32720

ccaaaaaag ttgctaacat acaatcttga cacttaagct acaaattaag ccacatgatc 60

109

<400> 32721

60

101

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<223>      unsure at all n locations
<400>      32722
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458

<400> 32723

60

120

180

gttacaaagt ttgctacaaa tctgttagag ttcaaaatga atttggcggg aaatgatagc 240
 ttgattaaga tgagattctg cttcactcgg cgccggcacc gtcattgccg cctgtcgggtg 300
 tgctgcact 310

<210> 32724
 <211> 296
 <212> DNA
 <213> Glycine max

<400> 32724

ctttaattag tgccttaaag gtccttaagg aactacctat cattctcctt aataataaag 60
 cactttttaa gatagaaaat atgctccaaa atcggtccca tttcaactct tgtagtgcta 120
 ttcacaactc actaaatctc tttttccatc tttaggactg gacttagaat ggaattatgg 180
 aaatgaatcc ttaacagagg cttcaacaat tttgagagat gctggcaaga gcaagaaaag 240
 tcttgcatgt cagttgtttt tcttttttgc acttccgatg tttactctat tcttgc 296

<210> 32725
 <211> 290
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32725

taagtttttag ccttcggggt tttcaccatg tggctcatgt tgctggcctt atgtctaaca 60
 tattatccaa aaaagggtgc taacatacaa tcttgacact taagctagaa attaagcaac 120
 atgatttggt tgtcatcgca taaaactcag taactcacca cggttttaa tctactgaga 180
 agcgatctac aacgagataa aatcaaataa agcttattat gaccgagagt atttatgtnc 240
 caagaaacca ttaaccactg aatttcatct aactaatact taattattga 290

<210> 32726
 <211> 455
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32726

gggcggggccc gcccgactcg tctcgactgc atatagtact atngcgcgtt tgtagccttg 60

cacccggcgc atctctagag tctacctggt tgcattgcaag cttatcctct cgtagagcta 120
aatccagagg agaaatgcct aaagagaact ccagatcttg cttcccatta tgggtcatttg 180
atacattcaa gatctcaacg gaagccaaac aattgttaca caaaattcta ctgttaagtc 240
aaaacaagaa tgccttagaa catattacag gacaagatat agcccacaaa cataaccagc 300
tatcaatgcg aggccaatat aatagcacat tcncccttgg gcaaaatgca taaaccaacg 360
ctacaaccct agccaatacc tacgatggcc taatccatga gaatacccct agctcacaac 420
atcgctccctt tgggcagaca cactcctcaa cttgc 455

<210> 32727
<211> 245
<212> DNA
<213> Glycine max

<400> 32727

agtcttttca ctgggagatg tgattcaggc gcataatata tcgagacgct cgaaaacgaa 60
caacggaagc tctcgagaaa ttccaatggt cattaccttt aactcggagg tctgatttac 120
gcgcataata tatcaagacg ctcgcaactg aacaacggaa gctctctaga aatccaaatg 180
gtcataacct ttactccga ggttccgatt ccgtgcatga tatatccaca cgctccaaat 240
tgaac 245

<210> 32728
<211> 479
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32728

gcgatcntnn tatggtacct cgcattcnng ttcgtttagn ntacatacan ctggaattng 60
gnnnatatat tattgataca taattttgtg ttcttgnacg aancgatttg ggcgagattg 120
tggtgatatg aattgtgaat ttccaaatct gcacttatgc anaatttttg ctgggaaatt 180
gtgcagcaga atcttgcaca agtgcagaaa aatgcttgtg tgtggttggc tgtggaaaga 240
gcagtgcgaa tgagttctgg atgttcgcta gtagatccca acggtcaaaa tgtatgctta 300
tgtactacag acttccagta aaaatttggg gtcgatccaa cgggttaacga attggacca 360
agaattgtta ctgtggtctt tatgtgagaa aagctgcgat tctggttgat gtgttgacca 420

[illegible]

<400> 32729

tattcatcaa agttacaaca agtggttacac atgttttttat ttatagacta cgtacct 117

<400> 32730

gaattgccat tccttggatt atagggttga accaagctca tgcttttaca aaaaagggttc 120

gagtcacatc actgcttcgt ctactgccaa acatatattag gattattgat gtccttgtta 240

<210>	32731
<211>	256
<212>	DNA
<213>	Glycine max

<400> 32731

ctggtaaaac taactttcca aatgtttgcc ttcgcaggaa atggccccga ggaagcttgc 120

tagtcaccgc tttaagagtg ctgtacacca gcagcgcttc gaggccatca agggatggtc 240

gtttcttcgg gagcga 256

13639

<212> DNA
<213> Glycine max

<400> 32732

agcttgttga agaagtttcc aaacaaaaaa gggagaataa gtagaagtta aagcacacga 60
catcatttga atgggagcct aaagtatgaa ggaagcatca atttaggggg agttttttat 120
tcaagtttaa atttctgccc tgaaacattt tattatgtac tcaaaacaca ttttctttat 180
atgaataaaa tgagatgttt tttgttattt gctcacgctc tatctcaaag tcttatgatg 240
cattattatt tggttatcat atatactctc tgcattctaat aagcctaact aatctcttat 300
tgtgaagtct tacaagcata ctttcaactt ttaaattctgt atgtgtctga catcatcaaa 360
aatgaagag 369

<210> 32733
<211> 144
<212> DNA
<213> Glycine max

<400> 32733

cattgatttt aattacacac ctttttttct tttattgaac gtgatgggtat tatgtggaaa 60
tctacaagt ttctgcatt tttactcaca caaagtggct caaagactct tcaagacgta 120
tttaaaacaa aaaacttggtg tgta 144

<210> 32734
<211> 257
<212> DNA
<213> Glycine max

<400> 32734

ctgcacgcat gcaagcttat tctagacggc tttccttttt ttagcaagtt cctaagtcag 60
tcggttttta aggctccga ctgagtacaa aatgacttgt agcaatttgg taagtaatta 120
aaaactcctc tgcattgtcca attttaaaat cctatagata tctaatatga attccatgct 180
catttcaaga tgtgccgagt accatgtact cacatatgaa agctataaga ttcactatct 240
gaacttgcaa tggacta 257

<210> 32735
<211> 284

<212> DNA
<213> Glycine max

<400> 32735

tggagccaag cgagagctca aaaactagac aaaataggta aggatgtgag gaacaaggct 60
agacttgtga ccaaagggtta ctcacaatag gaaggcatac attatattga aacttttgat 120
cctgttgctc atctataggc aatatgcaat atactatcct ttgttgctca tcatggaatg 180
atgcgggtatc aaatagacgt aaaaagcact ttccttaatg gacttatcaa gaagtttatg 240
tggaacacac ccctgggtgt gagaggacta tctaccctca tcat 284

<210> 32736
<211> 188
<212> DNA
<213> Glycine max

<400> 32736

tacacacttg gtcaaactca tgaagaaac acaaactcca tctcaaatat tgctcaatt 60
caaaataaaa gcatacaacc atttttcaca aaaaagatat aagcgggttca ttgccatgtc 120
attcaaaaac aagttaaact atttcaaata ccttagaata aacaaaccca ctatttatta 180
attaaact 188

<210> 32737
<211> 216
<212> DNA
<213> Glycine max

<400> 32737

gcatgcaagt ttctacattc aatgcgagac tcttcgggta ttacgggact caatccgaca 60
tcccactaaa aagttattgc agcttgaatc tgctcaagag cttcgtattt catttccagc 120
gtctcgatat attaccggac tcaatccgac atcacagtaa aaagtcattg ttgttcgaat 180
tcgctcagag ctccggcatt ccatttccac catctc 216

<210> 32738
<211> 310
<212> DNA
<213> Glycine max

<400> 32738

tggcatgagg gctatctctt tgccgacact ttacctttat tactccctac attattcatg 60
 gtgccactgt acacgaccaa tcttgcttag gacatggcaa tatggcccga agacgatccc 120
 aactcccaac ccccgaggac gaaacactct ccatatgtga ccacaacctc tacactattc 180
 ccaagcctct tcccctggat tactacaaac atccacaact atttctgact actctctccc 240
 acccaacaca cacaccattt tctgccacag caaaatccta ctgactattt gacaccaact 300
 ttttcttccc 310

<210> 32739
 <211> 465
 <212> DNA
 <213> Glycine max

<400> 32739

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 tccccccgcg ggaacctata cattatatcc gcgagcttgc gagcttgacg gcgacggctc 120
 ggggtgaaga tggctgacaa cgctacctct gcaacacatg gctacggaat ggagaccggg 180
 aaatggtcaa tagagacgcc actattgtga gaagaatagt gaagcacgac ttcagtgcc 240
 gatgaagaca tggatgctca ccagtatgc aagacacaat gattgcgcgc cagatgccga 300
 taaagatgtt cgccatactg aggtccgaac gctgaagtcc tttcttcaca caatgcagag 360
 gactcaaccg atgaatagga tcacgcctta gaggagacta ctgcactact gtcaccagaa 420
 actgatcagg tgatcttact gacctgtaag aagttccatt tgacc 465

<210> 32740
 <211> 470
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32740

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 tggctgtgtt tctcattttg tcccccttaa ctctaacaca tggaaacttat ggcgacctct 120
 agcctctact tcatattcaa actgaaactg acgagaacct ttccatgaat ttggggagtg 180
 actcatctgt cgtctgctga atgattgtga gtgcaactat acgcaagtgg ggtgctttac 240

tcatcatgaa ctgggctcca aaatgcacaa taagtgtcct gaaagaatct attgagttcc 300
 ttggcacatc aatgtaccat tggagtgttg aagcccttat gttcatcacg aatacttggc 360
 acattatgac atcattattc gcgaatagat ttatttgcgt tagcgatgca tctatatgct 420
 tcttctggat ccgacagttc attgtatcca tctattggcc attgcttgc 470

<210> 32741
 <211> 321
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32741

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 aaacagggca aaggcagaaa actctacca aaacaccaac caaatcacag cttttcacac 120
 acaaataccg cagaaacatt tcttctgctc cggtcatta acccgtggat cgacttcaaa 180
 attttactgg aagtctatag tgcataagcc tacattttga ccgttgggat ctactagcac 240
 acattcagaa ctctattctgc actactctct tcacagccaa acacacacaa ngcattttct 300
 gcacaaaagc aaaatcctac t 321

<210> 32742
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 32742

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 ccctagctct gcaacaagtc ctagggaagt agaccggag atggacaaga aaatccgcag 120
 tattgtgagt agcattctga aagatgcttc tgtgcctgat gctgagaaag atgttccaac 180
 atcttccacc ccaagtgttt ccgtgcctga tgcctgagaaa gatgttccaa catcctccgc 240
 tccaaatgct gaagcccttc cttcaccag tgaagaggaa tcaacagaag aagaggatca 300
 agcctcagag gagactcctg caccacgggc accagaaact gctccaggtg acctcattga 360
 cctgcaagaa gtcgaatctg a 381

<210> 32743
 <211> 344

<212> DNA
<213> Glycine max

<400> 32743

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gaagcatgtg taacacttgt tgtaactttg atgaatgaga gtcttgtgag acacaactca 120
aagttcaact tctctccctt tttcttcttt caatttcgtg ctccccctct ttctttctct 180
ccctctttct tttctccat tgaagcatcc tctccaagct ttttatccaa ggctcatctt 240
agtggcgaag ctcttcttc catggcttat tccctagtag atggcgccct ctctcacctc 300
ttctcctttg tcttcgctg catctccatg gagtaaaatc acca 344

<210> 32744
<211> 218
<212> DNA
<213> Glycine max

<400> 32744

tatttaatgg tggtttgatg ggttcattgg ttctatttgc atttaatttt tgcattgcttg 60
gggactgatc acccatgtgt gtgtaaagtg aagattttta acattggaaa atggtttgaa 120
tccttaaaac tggatagaag agggctagaa tactgtatgt ctggacacag agtgaagga 180
tttaagtttt aatatgttgt aatcggaatg caattcat 218

<210> 32745
<211> 155
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32745

agcttttncc ttattttcct ataattatgg ggagaagtga agggaaaaaa tgttcaaccc 60
tcctagcaat tccagatcac ttcaaactag cgacgaaaat cgctccgtg aagaaaatcc 120
aagccaaacc gcttccgtaa cgttcctgtg ggtga 155

<210> 32746
<211> 358
<212> DNA
<213> Glycine max

[illegible]

<210>	32747
<211>	283
<212>	DNA
<213>	Glycine max

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agctttacga atccccgatcc aaccgcgggca tagtcagtga gtgagaacct gtgatgtgcc      60
taaacaggcg agctcctggc agtcaacaga atatatgaac aaagaccaca aagcaaggag    120
gcttgtgtgg tggctggcca gctgtgaact ttgagtgtta tatgggatat gggctttgggt    180
aattgattac caacgggtggg taatcgatta ccacgcttaa aagtgaagac atgaagctaa    240
gatggcctct ggtaattgat aaccaaaggt gtaatcgatt acc                        283

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<210>	32748
<211>	372
<212>	DNA
<213>	Glycine max

ataaaaaggga	tgccccacat	tattttcatg	acacaaatgc	aaaaatgatg	atttggaat	60
tttatgcaa	actggtcag	catgcaccta	tgccgacgct	caagtgtcaa	atttttatgg	120
tcatgtgatg	ctaggggtca	cgattcattt	cctctatttt	aatcaaccc	aatgtttcca	180
aaacatggtc	ttttatcaat	ttgtgcattc	ctccaagtcc	ctttcgggcg	tctggggaaa	240
ttttcacagc	attcaccctt	caggtgtaga	cacgttcttc	tcttcaaaat	cgggtatgat	300
caatgaactt	tttttcaaaa	aaagttgaaa	tcattttttt	caaagcatgt	cggtttttagc	360
tagaaactta	tt					372

<210> 32749
 <211> 462
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32749

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 tgctnanctt cgcgcaggna tgccacgttg tgagacnctc tttaaccttt tgtgtggtga 120
 actacagagc ctggcgtttc tacatttact caccatcata gggggataat gtggaatatg 180
 caatactccc atcctcgaat attaccccat tgcattgaac gttcgcagtt cctctccttc 240
 gttccatccc taactgcccc ctcataatgg agaataatta tttcctacac aaacacgtaa 300
 gggggattga tcaaaattat cagcgcacat gaccatagag aaaacggaag cacagactaa 360
 gaccaatcta cccattctga gggcttgaac acggtccaac tatctattga ccacaaccca 420
 caaccttata caatatgcc a tgcccttacg cgtgctacgg cc 462

<210> 32750
 <211> 475
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32750

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 ctctectaca cgctgaatcc gtctagcatc taccttggtg cacgcaagtt tatgagggtcc 120
 acggcgacaa caatgagagg ttatatactac atggggcctt atcatgtgaa tgccctatga 180
 aatatgcggc ggaaatggtg atcctcaatc aggtcaattg tgactaacat gccgcttaat 240
 acgttcgcac ccgcagcatg catcaaaggt gatcccaatt tcagaaaatg cgtatacaag 300
 catgatgctc acaaatgaca tgcaaggact ccgctacaag tgctgtaacc ctaacttcac 360
 ccaatggcca ggattacgcc gacggaaagg aacaattctc ttaagtttta tcgtgcacac 420
 cgacgcctaa aagagctcta gagacccta tgaccgggaa caagatcagg cgacg 475

<210> 32751
 <211> 309
 <212> DNA

<213> Glycine max
 <400> 32751
 agcttctccc tttattgtct ataaataggg ggagaagtga actataaagg gggtcacccc 60
 cttacgcact tctctctttc caatccgctc tgaaaaattg cctccgtgaa aaaactccaa 120
 gccgatgcgc ttccctaacg tttcccggag tgactccgcc aacgtcttcc acccttcttc 180
 caccgccctc attcattcct caacggctca ccacctcaaa ccaacctttc ccactattct 240
 atgtaccggt ggtgggtccac atctgggtccc tgcatactat cccccctcca tttacctttt 300
 atccccct 309

<210> 32752
 <211> 213
 <212> DNA
 <213> Glycine max

<400> 32752
 agcttggtat caatgcta atccaaactcc ggtgcatagg gattatactc ataatacagct 60
 tcccgaattg tctgctagta tactgggaaa gctatacatt aattaaacta aaccaaacca 120
 cccacacaca ttatatattt gtttgtaacg agaataaata ctgacaagga caaagtaaaa 180
 caattcgaat ttatcatata gccatggcta ttc 213

<210> 32753
 <211> 342
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32753
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 tggaggaatc ttctggaggg cccaagtggg cctcgctgct atttacaccc cctgtttact 120
 aaatgcagcg cctttttcta ttcttttgta attctttttc cgtaacgcta cgaaacttta 180
 cgaatttcgt aacgatacct attttgcttc cgcaaagcta cgaatcccta ccgattatgc 240
 attctactct cttttacctc tcgaagaaga tacggaaact tcacgattgc ccannaacac 300
 ctcttttcga tttccgcac attacggaat ttcatgaatc ac 342

<210> 32754
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 32754

agtttgact ctttcatctg atggagtgt taccatttaa cttgccacac actatctacc 60
 tcaacattat gtgcatcaca aactctatgg atagccttga agacatctat tatgtgtgtc 120
 tactcaacag aatcttctag agtaaaggag tttatcaagt cttctgttga tttttggacg 180
 atggatgata gagatatggg ggacaataac attggtcatt tgggtctacta ttcttatctt 240
 ctatattgat ccgccaatct tctattatct agtgggtgcat ccagtcac 288

<210> 32755
 <211> 238
 <212> DNA
 <213> Glycine max

<400> 32755

ttggcgataa gtacctttgc aacgacatgg tccatacatc tcaccgacac atgtaaagcc 60
 ttgttgtgtc ctcttcctc aacgggaatt tcttcttctg gaaacgcat ataagtgttg 120
 gtgggtatat gattaacgat gcctttcaaa cccttcactg agatatcatg tgctacatgg 180
 gcatcgtaa ggacctttat cacagcgac gatgaggctc ggaagttatg agcagttc 238

<210> 32756
 <211> 329
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32756

agctcacaaa gagaaccatc ttgatatgag ggactctgga agtcctctta caacgctatg 60
 cttttgaagc tttagatta acctcaagct aacatgacca agcttcttat gtcaaaccac 120
 ataatgctct ttgactgaga gtacgcatga aacttttggga ctagacagat caccaagtct 180
 aatcttatac agatttcctt gtctcttagc ctagaaaagt gaagaagtct ccttgttctc 240
 aatgatacac atatcctngc taaagggaca ttgtatccac tatcacataa tttacttatg 300
 ctaaccaa at tatgcttcaa ccctttaac 329

[illegible]

<400> 32758

<400>	32759
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13649

gaactgaaat gcctttatct atctgcttca ttctcgcta accgacaatt tacgtcccta 360
tcatactg 368

<210> 32760
<211> 333
<212> DNA
<213> Glycine max

<400> 32760

agcttggtaca tcagagttaa agacattcaa agcctgatgc gacacgtctt caatccaaca 60
attatcttga aatctaattgc caactttgta agtctaaaca tgtttacgaa atattataat 120
atctcatttt gcctattctc atgataaaaa aagatgttta caaaataact tacatgtttg 180
gaaacagtct acatctagaa aaacaaaatt tcttaaaaaa taagctgctt tttttaatct 240
aaaaattcgt aacttatgtc tatttgtaa taatctttct ttctttattt aaaccgcttt 300
catactcttc tgccgctca aagttgatta tct 333

<210> 32761
<211> 478
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32761

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aagttacttc atgaggatat agaagtttat tttgtataat attagagggga tccagcttgc 120
acacgaatcc tgtacaaata accccattgg atatttgctt tttttaagaa gatttctaca 180
ttaaaaaaaaa acctatgaac aatattattt taacagaaag atacatggtg ttattaacaa 240
aaccaaaaat ccctaacc atgggcaatt cttaactttt ttataaaatc cttttttaaa 300
agagtaaatt atgaaaaaat ggggtacaaa aaaatatttt ttaccttag aatttttttg 360
gttgaccaa gggttgaata aattaccatt aaaccagga attcatggaa cccttacaac 420
cttatttttt ttctcttcg ctagaatttc caatgaaaaa aaacaacctt tggttcct 478

<210> 32762
<211> 289
<212> DNA
<213> Glycine max

<400> 32762
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 cagtctgttg tgacaaaatt actgcgattt tattctcaaa atgtatttct ttcgagtaca 120
 taaaatctgg catgaacatc tacattctta gtataacaaa tggatcatgcg agtaacacga 180
 aaaacattct ttctcaacca gaacgtcacg ctgctaattt gaggttggcc ttaatcctac 240
 atatgtccct agccaactaa atgatctata cccaacgatg gctcaatat 289

<210> 32763
 <211> 346
 <212> DNA
 <213> Glycine max

<400> 32763
 tacgtagcag ttttcttata aaatagaaaa ttttgaacca taacatcata gttgcataaa 60
 tgcgcatcga ccaaatcatg ggataattga ttaaaataaa aagttttcaa aactaataac 120
 acatagcaac acattataat tgattaacac aagagagtaa tccgataaaa tagtgaaaac 180
 acgaaatggc aaggtaaaac atgtattttc aaaaagagat agaataatca actacagatc 240
 aacatatcaa catactatga cattaaataa aattaattga cataaagagc atacataata 300
 ggctacatgt actaagccta acatcattca atgctagatc catcta 346

<210> 32764
 <211> 273
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32764

catgcaagct tgctatctag ctcttccagg ttttagaggt gcttctctca gaagcgggag 60
 ccttctggag gaatcttctg gagggcccaa gtgggcctgg ttgccatttg caccgccatt 120
 tttactaagt accacccctt gcctttnttt ggggattctt tcttcgtaca gttacgaaaa 180
 cttacgaatc tcgtaacgat accttgtttc ctttcataat gttaccgaac cctgcggatt 240
 acataaccat cctctttttt gacttacgaa tgt 273

<210> 32765

<211> 330
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32765

actggatgct ttggtcaact tgagaaccta nctggccttg aatcacaaat ctggagctgt 60
 cttaaggggtt tgtgggggtgc gccctcccc tgaccancat atanaccttt ggccttccat 120
 gcagcaacct aaagcaattg agcagcctga agcttatgct tgaaatattt acaatagacc 180
 ttctcaacct cagcagcaaa atcaaccaca gaagagcaat tatgaccttt ccagcaacag 240
 atacaacccc tggatggagg aatcacccta accacagatg gtccagccct cagcaacaac 300
 aacaggagcc tgcttcttcc tttcaaaatg 330

<210> 32766
 <211> 88
 <212> DNA
 <213> Glycine max

 <400> 32766

acacaagagt ggggtgcctat tacgctgaac ctaccctttt acgccaacaa tcagctatcg 60
 gctacgccat gataattccc ttacacct 88

<210> 32767
 <211> 178
 <212> DNA
 <213> Glycine max

 <400> 32767

agcttgcttg cggggcttgt atggaggctg gatctttgag cttcaatgag gtccttcaat 60
 ggtgatttta caccatggag atgcagcgga agacaaacga aaagaggtga gaggaggcgc 120
 catccactac ggaataagcc atggaagaag gagcttcacg accaaaatga gccttgga 178

<210> 32768
 <211> 470
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32768

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 ttatgcgaac tcgccacccg gngatcctct atagttaact gaagcttgtc aatttttaag 120
 tgcccaacaa ctgggacaac gtctctataa tggaccacga tcattgctcc tacttattgg 180
 catcgtcatg atcattttat ctaagattgc tactgttggt cccatcatga agagctagtc 240
 ctccctagtc cgaacattat tagattactt ttcaattgaa ctcgcccaga tcctagttgc 300
 tcaattcttt ttttcttatt catacttgat ggtgtgaaaa cttcaccact ctttctgata 360
 accaacacat tttgacctcc ataatacctc acaactatgc tttccgacat ggaactgctc 420
 atattttacat ataccacaca ttttgcactt actatggcgg gtctgccccg 470

<210> 32769
 <211> 346
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32769

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 ctccaataaa ctacttttgg tttggatatg tgttctgtca cgcaagattg cgtggtcact 120
 agtagccata ttctcaatta actccattgc ttcttcatga gtcttttagtt taatttttct 180
 tcctacagaa gcatctacta attgcttcaa ttgtggcctt aacctatcaa tgaagatgtt 240
 caactgtata cgctcacaag aatcatgtgt ggnggtcttc cgtagcaagc tatggaaccg 300
 ttctaaaact tcactcacag attcattaga aaattgatgg aatgaa 346

<210> 32770
 <211> 242
 <212> DNA
 <213> Glycine max

<400> 32770

gtataagggg atcgcgtaaa aacatgggct atattgttta ttcttgtatg ctaaacaatg 60
 gataactaca actcgttttt gagcttccac cgctttggtc tgtgaatcac gaaagcactt 120
 gacctatgac tttcttattt agaaaaatgg gaacaacttg acacatatta atatccatta 180
 tggctatcaa attccactta gcaacttaaca taataaccta ccattatcac cgtattatat 240
 ta 242

<210> 32771
 <211> 288
 <212> DNA
 <213> Glycine max

<400> 32771

agcttataca ctatacatct aaaatgttca gggcccagaa aaggtgatga ggagatatat 60
 atgtgacgtg atgatcaccg aagcgctagc aacataatata taaaatattt ttttaataata 120
 ttttttatta tcagctaaca tttataaaac agattataaa tctattaata gaattcatta 180
 aacacaaaat aacatcaatc aaatctgtat ttttcaatac aattcaacca cagttcacgg 240
 tgtatttaat acagggggct ggcgtttatc taaccatgat accgtacc 288

<210> 32772
 <211> 472
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32772

tgatcctatc acctagcatt cngacatctt agtaaggtaa catctccacc cangcnaat 60
 tttgtgtgag aagcgccctt ttccttggtc tatncccaa cggaaggggt cgtctctcat 120
 ctctttaacc ttggcctccc ccgcatcccc catgggggaa aaataccatt taaggaccct 180
 attggagctt aaaaatccaa cccccattga aaccccatca gcaagggtcc attccatatc 240
 ttctatcatc ctaagattga cccatgacaa tgaatctatt aaaagttact accagctctg 300
 agaaactaac taacagtggc caatacgatt gatggggaaa agaattgattg gacttgcaat 360
 gtggggaata gaaatttgtg ggtggctgta caattgtcct cttattatat aaaagggcgt 420
 cgttccaatc acaccaaacc ttttgtttat ttttttttca cgaatttacc tc 472

<210> 32773
 <211> 352
 <212> DNA
 <213> Glycine max

<400> 32773

agtttgatc atctactttc tacaaattga ggttttcac aaagatttgt attctacagg 60

0042106-101500

ataccaatac caaggtgagg attggtacaa ttgaagtga tgcgggcctc tatcaattca 120
 cccccgaagc accaaaaaca cataccatat gttctatcat tacacacca aagtgtctaa 180
 tcttcctgt aaatctatgg cattctcgta tgggtcacc cttctccgaa agattacaag 240
 ccatgcaaac atacctatcc tttcttaata ataacaagag tttcatttgt aatacttgcc 300
 attatgccaa acataagaaa ttaccttttc atctaacaca tctcatgcat ta 352

<210> 32774
 <211> 181
 <212> DNA
 <213> Glycine max

<400> 32774

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 aaaatgaaac tagatggtcc ttgcttctat ggctcagacc ctacaaggcg gattgttaaa 120
 aatccccaat tttttgctta ccaactcaagc ccaaaatccg agagactcac catagccttc 180
 t 181

<210> 32775
 <211> 253
 <212> DNA
 <213> Glycine max

<400> 32775

cgacgaatga tattgattat ttctaacgtc cgaatctcct ctctactaat tcattgtctg 60
 aaaaagtagg ataatat tctaaaaatt ttctattatc aaaaatggta aatattcggc 120
 gattttattc ctaatgggta aaattaaaat tttcattctt tatacaacaa attataatta 180
 aataaatcaa atttattgca attatatagt ttaaaatcat ttttaacatc taaatacttt 240
 attaataata tta 253

<210> 32776
 <211> 464
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32776

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ccacccgggcg	atcgctcaga	gtctacctgt	atgcatgcaa	ctttgctgct	ctctgggggcc	120
aaaactaggc	agctgaactg	caggtctcac	ccatatcaaa	cacctgttat	ttaacgaaat	180
aattttaaat	gcaacaattg	tcaggtaaac	aatttgaaca	ctaacatact	aacattatcg	240
tctcagaacc	aacattcaga	tgctttctgac	acatctccct	aactctatta	cttcaccaat	300
ggttgatctc	aattaaacca	ataacttcca	tctttatgat	ccacgaagat	acgctttgta	360
cctcattaag	accgctgatg	atgcccgacc	gctccctatc	ccttatgacg	ccccacatct	420
tctacaccat	cgcgtaccta	aatccatcac	aggtggcttg	tccc		464

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<210>      32777
<211>      455
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      32777
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atcaagcctt gcctcaccat gaaaggcttc aagcccttca ccgcacacgt aatcgactac 240
caacggtttg 250

<210> 32779
<211> 171
<212> DNA
<213> Glycine max

<400> 32779
cccatgcaa tttattaagc tataattaa catttaagaa gccattgaaa tgtgccttat 60
gttccaccat ggcgggttga aatgcaacaa tagaaaagcc tttagaaaag tggatcgagg 120
aacaagaac aatatcgtag tttatattta acgcttaaaa cattattaca t 171

<210> 32780
<211> 210
<212> DNA
<213> Glycine max

<400> 32780
agcttgaagt acaagaaatg agtacaaga gagggagagg gggggggcac caaatctata 60
cctcaaataa ggtctgaact ttgaagttta atttctcaca tgatcaaagt tgaaaaatgc 120
acacacacgg cctttattta tagcctaagt gtcacacaaa attggagggg aatctgaatt 180
ttattcaaat ttacttgaat tgaattttga 210

<210> 32781
<211> 416
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32781

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aatgtcataa taacaaaaat aatccactta attagttaat ttattatcat gaaatgtatg 120
taattaataa atatttaatg ctttaaggttt aaaacaatta atatttcaaa acacctctta 180
atcacaaaat aaataaataa aaaagaacag aacaaaaaac gcacacttat ttaatcacat 240
tntataatca acattgcaca aatcatata cgcgttatct cttatttcat aggcacggtt 300
tttcattctc tttctcaaca cctttattcc atctgtttca agctttaact attatnattc 360

gatggagttc acatattgtg attgtcaaac ccaaaacatc atcacaacac caccce 416

<210> 32782
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32782

agcttgcttc tacaatctcc cctttttgat gatgacaaac ctgaaatcaa gaaacacata 60
cacattcttt ttcttagtcg atcactcact ntattctcca tattctcccc ctttgttttt 120
gagtttatgc ttacttgaaa ttaagttaat tacttatgtg agttcttgat ttgattccta 180
tttctctccc gctttggcat caacaaaaag ccaaagtgcg caacaaatat aaaacatata 240
tacattacta atcattcaca agacattcat tgaaaaaatc taaaccaatc atgaagcaag 300
aaacatgaat agatcacata tataaaaacc acatagtcac ataacataat tcataattgc 360
tcaatcatac tat 373

<210> 32783
<211> 419
<212> DNA
<213> Glycine max

<400> 32783

gcgggtctgg gagacgaatg tcaagtgggt tctatatgtg aagatgatgt tccaagaact 60
ctggatttgg tccgaccatg cccttctgat ttccagctgg gaaattggcg aatggaagaa 120
cgccccggca tttacgcaac gagcataatg taaaccttta cggtttttaa agctctatag 180
ttgggcctag gcttttagagt tttcattttg ttaaggcttt gtgtcttttg tttttgaatt 240
tataatacaa ggatctttct tcatctgttc ctagtctcta cccattctca ttcatttgca 300
tgtttacttc tttttctaaa acggcagatt cgatgacgag tccccgaag gtactaatac 360
ctgggacccg tctatcaact tcgagcaaga aatgaaccac acggaagatg aaagagatg 419

<210> 32784
<211> 213
<212> DNA
<213> Glycine max

<400> 32784

agcttgtaga atggcttttc atgatccatg cgacgatttc acgggggttca aggataaaat 60
 ggacgacacc catcatctcc atgacacaca tgcacaaacg atgaccagga aaatgtatgc 120
 aaaactggcc atgcatgcac ctatgcggac actcaacgct gagaaaatta tggatcatgtg 180
 acgctcaggc tcacgagtcg cttcctctat ttt 213

<210> 32785

<211> 272

<212> DNA

<213> Glycine max

<400> 32785

agcttgatgt aagccatgta tgtgtttact ggtacaggtc tagctagcat ggctaacatg 60
 aatggatgtc acggttgtgg tttaattact tactatgatt cgtgacgatt cttcacaacg 120
 tcttatatgt ggatggaaaa taatcaatga attgccatgg ctatttaaca ccttaccaga 180
 taaggaacca acaaaagaac catacttata agcatgtaac tattatgacg tgttaaaaat 240
 tgaagaacaa tccacactta aagatcacat ct 272

<210> 32786

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32786

tacgggacta attggaacca gcccaaaaag ttttttgcac cttacgaccc agcaagatac 60
 atttattggg actatattga tgcctggacc aatgtgtttt ggcatcaaaa caataaatc 120
 aagcattcgt ggttgatcta tttaaaaaat aacactgtat acaatnttcc aaactggttt 180
 ctccaatggg ggacttattg tggccaatc ccacaaatct ttccagaaga agtccaacaa 240
 ggatttcaac agttcaatag attgttaaca accacgaatc aagaattcca gccgatctaa 300
 tgtattttac tagctttgct ttgtcatgga tcttttcatg gcaatacagg tatgggaaaa 360
 ctg 363

<210> 32787

<211> 352

<212> DNA
<213> Glycine max

<400> 32787

agcttggctt agcacattac tatcaacaaa gaattgtcta agtgacctgg gctcaccgat 60
tcagcctcgc ttatccacag gtagttcagc aagaggatga gtattcatcc tcaaaggatg 120
aactcgctta gcgcggtacg cacgcttatac gagttcttca gagaacgcct ctatacaatg 180
agaactgatg aactcactta gtgcagcatg ctgcctacc gagttcattg tgtcttccac 240
acaacacaga aaacgcagct cgctctcttg cacttttcaa agctctaaaa ggcgtattac 300
acatgcactg tgtgcatcat actcaatata atataccaac gcaaatagtc ct 352

<210> 32788
<211> 319
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32788

gaagcaacgg ncttttttgt atataaatcn tgatgctttc tacatccgct catggaagag 60
cgttgatagt tgcctttatc aggcaatacc aatacaatac taacatggct cctgacagaa 120
cccagctgca aaatataagc aagagagagc atgagtcctt taaggagtac gcccaatggc 180
ggagggactt ggcagcacia gtggcacccc ctatgggtgga aagagaaatg ataactatga 240
tagtggacac gttgccagtg ttctactatg aaaagtttgt gggttacatg gcctctagct 300
tcacagattt gatatttgc 319

<210> 32789
<211> 330
<212> DNA
<213> Glycine max

<400> 32789

gcacggttta tgaagaatgc gggagcttct tcggcgcagc aaaaggacgt tccccagta 60
taatactcat accatgaagt tcaccctatc gatgctccct ctatttctat atgctttcta 120
aaacttatta tccctgctta ccatattcct ctctctctct aaaatctatc atccctgctt 180
accattctgc tgctcctcct attcctataa gactcctcta agccctactc agaaagaaca 240

aaaacgacat tcactactaa agatgccaat ttctttttaca tggccatata cttcggcctt 120
 aaaaatgcc a gtcctacata ccaacgactg atggactgag tcttttagaca atagatcgga 180
 ccaaacatcc acgtatatgt ggacgacatg gtcgtcaagt ctaaaagcat agcccaacac 240
 gtggcagacc tacaagaatt ctttggggaa ctctgcaa atgacatgtg c 291

<210> 32793
 <211> 196
 <212> DNA
 <213> Glycine max

<400> 32793

agttttaagc aaactcggat gacaataacg ggggagtcgg atgtccgatt aacccaattt 60
 atactctgag acgctcacia tcgaatgcag gagctctcac caaattccaa tgacaataac 120
 ttttcaactcg gatgtccgat cggaccccg c aatataccta gaagcccaa atcgaaaaca 180
 gaagctctga gcaaat 196

<210> 32794
 <211> 214
 <212> DNA
 <213> Glycine max

<400> 32794

agcttttatgc ttatgatcgc gcgattcttc ggataaagga aagagagaca gcgaatgcat 60
 atttttcttg tagtctaacc ataaccaaca aaatgaaggc tcatggtgga gtgaaacagt 120
 cattattgca aagattctga gatcaatggt ctcaaaactt gattatgtgg tatgctcaat 180
 tgaagaatcc aacaacttac acatgatgag tatc 214

<210> 32795
 <211> 335
 <212> DNA
 <213> Glycine max

<400> 32795

atcttttgctt gtagcttcaa tggagaatga agaagaagag aatggcaacg tgagggagag 60
 agagagagct gtctgaaaag tgtggggctg agtgaagaga gagagagagt tgcttttttaa 120
 ttttaaaaaa aagctttttc ctcatcttctt attattttat tataaactat gccacatgtc 180

tccatttgag tggagcaaaa agggccact ttcccttttt gactgtgacc catactcagc 240
 cacaaaagtg aggaaaatct gacctttgaa acgctaaaat cttgcctcgg tttgcatgcc 300
 gtttctatgg ttccagttcc tcgcgtttct ctgcg 335

<210> 32796
 <211> 417
 <212> DNA
 <213> Glycine max

<400> 32796

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 cgcgtgttct attaatgcag cttcattacc tacatcattt acacgtactg ccaaggtgta 120
 tttgttactt acatcacacg catctccttg gctgaatttg catacatgca tactcaaagc 180
 attttggggg accaaaaatt gcacatgtgc acatcttggg atttctaata cctatatata 240
 cacaaacttc atgatgaatc ttgactatct tcacaaaaag gtgctacact tcatcccttt 300
 tttcaagttt ttgctaccta aagccgcgcat caaatttaag catatttttc ttgcggacta 360
 aaattgtatt ccaattaaaa agtatatttt ttgtaatatg ttttcttcat gccacat 417

<210> 32797
 <211> 207
 <212> DNA
 <213> Glycine max

<400> 32797

acccgcccgc cccagagtta cccgcagcat gccatttttc cagcaggggt cccgaaagct 60
 gcgccatcta caaaccaaac acatttcac ccacacctaa ccaacactca accagctctt 120
 acagcagaaa gagtctctac gcgctcattt cgaacggcgg aacgaaatga aacggaacac 180
 actggagaga aacaaaacac aatacaa 207

<210> 32798
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32798

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gcgtattaga ggcttctttt caatggctac tagatgtaat taagtcttta cagaactgag 120
tgaatgaact gaccatatta gaaaattaca ggacacaaga aatacctcca ttattatcag 180
ttaatggtac aagagtcttc aagtgcacat gccgtgcata caataatcaa aatcaagaca 240
agcacaaaac atgcaaaaag tgcacaaaca tataccatga aaaaataaca atacaaaacc 300
caataaaagc ctgtcccgtg aataggtggt ctgcg 335

<210> 32799
<211> 337
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32799

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attttcagat gccagccta naccatgag aagggagaag aaagaaaaag ggcattgttac 120
tgtattgaaa tccatggaga tattctacca gaagaagcat gtgtatcaac taattaatca 180
cctgtatccc attacttaga gcaccaccaa aaaggataag tattgaatca catacaccac 240
tggaatcacg gatgacaaca gcattgacct taactctctc acccaaaacc aaccaaggggt 300
aaggaatggt ctggtaacgt gcattcactg aattctg 337

<210> 32800
<211> 375
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32800

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catatatgga catagaaata gagatgacaa cacaattttt agaggcaata atgaccaatt 120
ccaaggtaaa ggcagaggaa gggattttga aaagtctagg gtggagtgtc atagatgtca 180
ttgtagaagc aaagcttcat ggtgaatcaa aggtgattca aaggtgtttt gatgataaca 240
atgatgataa caaaagatga tgacaaaggt gatgacaaaa agtcaaaga tcaatcaaag 300
aacaactcaa gtgaatcaaa gatcaatcaa agaacaactc aagtgaatca agaacantnc 360
aagagtaaga gtcaa 375

<210> 32801
 <211> 316
 <212> DNA
 <213> Glycine max

<400> 32801

agcttgtagc atattgaaac ctcaatatat cgagaagctc gacattgaaa gaagaaactc 60
 tgagcaaatt gaaacgacaa taacttttca tttggatgtc cgattgagta ccgcaatata 120
 tcgagctgct cgatattgga aacataagct ctgagcaaatt tcaaacgaca ataactcttt 180
 actcggatgt ttgattgagt cctgtaatat atcgaggcac tcgaaattga aaatcaagct 240
 cgaagccaat tcaaacaaca ataagttttt actcggatgc ttgattgagc tccttaatat 300
 tttgagacgc ttgaaa 316

<210> 32802
 <211> 481
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32802

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 nacgatataa ctatttactc ggatgtctct ttttatcggg taatatatcg agacgcgtgg 120
 tattgataat agaagctctg aaccaattga aatgacaatt actttatata cgatgtcct 180
 ggttgagtc gttatatatc gagacgctcc atattgatac aaaacatttt ataaaattaa 240
 accacgataa ctttttactt tgatgccga gatagtggct taatttatcc agagatggct 300
 caaatgaga acggaagctc ggatcacatt caaacgacaa ttacttttta cttggatttc 360
 tgactgagtc cccgtatata tcgagatgct aaaattttaa ttccatagtt ctggaaaatt 420
 tggattgaca tgactttata cccggatggc ctgttgagtc cttgaatata tcgaaacacc 480
 c 481

<210> 32803
 <211> 368
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32803

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 ccacaacata gaaaggccta aacacaagtc aaaacacata agactaacia ccaccgtgtt 120
 atggatcatc atcggtatct acacgcattc taagggtgtc tttttcacta tctcaacata 180
 catattgtgg tcaactacca ctagaactct caaaactcag tgggtctcca acattctagt 240
 ctggatgaat gctacgagta caccttcatt acaatataat ggcacgggtc tacctattgg 300
 ctatgcctca cacttgctga gatttccaag ttgacactat ggaaactcga ccacaaactt 360
 ggtgccat 368

<210> 32804
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 32804

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 acaagcatag attcaaaagg tactaagttg cctcctaaga gcgcttcttt aacgtcttta 120
 actggacgca tgatggcttg taagtcacgg acctaacact ttgcttacct ttggctttgg 180
 acttggtcgc ctgctggctc gccatgtgtc gtatgcaata ctcaaaccct tttgtggatg 240
 agcagaggtg aactctaaag ggggtggcgg cgcgtctatt gcccgctacc gaccatcccc 300
 aggtgctgtt ggtgtttcgc cctgcgcctg cctggagacg caatactttt tgatgaaagc 360
 atcattacta gggggcctga t 381

<210> 32805
 <211> 209
 <212> DNA
 <213> Glycine max

<400> 32805

agttttggct ccacctttct ctattttaag aacacaccga gagggttctt gcttcataac 60
 ccacaacata caaacgccta aacaaaagac aacacacata acactaacia ccaccgtgtt 120
 atggccatac atccgatctc atacgcatac caacgcgcca ttcttcacta tctaaacata 180
 catattgagg ccaactaccc ctacaactc 209

<210> 32806
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 32806

agtgttaacc atgccgttct acaaatcaaa gaatacaact atgggggttg acgaaggacc 60
 tgcgacattg gattttgttc ttgaaccga agtcagtgtc aaacggagtg tactacaaaa 120
 tatctataaa tgtgactgta ataatgaaag caaacaagaa tttgttcatt ttctttgcgg 180
 agctcacttg gaagttctct ttgctgcat agttatctta cgacctttac ttttattatt 240
 tcatacaaga ccaaaagtca aaatttccac actcatacaa ccaccg 286

<210> 32807
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32807

aagatttctc tccatggtat gacactttgt ttaacagttg ggcgattgtc gacagtgtgc 60
 ggttacgatt attctaactc attagctcaa cctccaacta gcaacttggt cgtggcccg 120
 gattctaagc acggaccac tcttgnctt tggccacgtt gcagtccaat agaaatatca 180
 gatatagcta atttacattc gtatgaatat aagatataga ttaatatag ccattagata 240
 acgatcgaat gagtaattac ttcttgctaa agaatgccga atggggcatc atgttttaag 300
 ttactagcat tcttcttctt gggagaatcc atgtgaaacc aacaattata aaatacctat 360
 aatattactc tat 373

<210> 32808
 <211> 230
 <212> DNA
 <213> Glycine max

<400> 32808

gactaatagc gcacacaatg cctgaacaca ctctaaatg cctttacagg accaagatcc 60
 accaatagaa aatgacaact acccatgcgc tgaaggccta aacgacgaca catgtatttg 120

2025

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<223>      unsure at all n locations
<400>      32809
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tcttaacttt	ttcaaattac	tactatgtaa	ttattatcaa	gtctattttt	gttatgttta	180
gtctgttaac	aattaccata	agcaattact	gattttattc	cttatgatat	tgogcatatg	240
taaatattgtc	tgggcccctt	gggtggagta	ccctcaagca	tagggcattt	gggtctttct	300
gacatatgat	ggaaaaagcg	ctgacttgac	tgatggatag	ggttg		345

<210>	32810
<211>	328
<212>	DNA
<213>	Glycine max
<400>	32810

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ggctgcatct	gacttcacaa	gagccttctc	accattagca	tatcaccttg	catagctttc	120
tcctcaagct	cttcttcac	ctcttcttct	tcactgattt	cagattcact	ggtgatttct	180
ccatctgctt	tcattgatcat	ggctctcctg	gttggaacagt	caaaagcaat	atgtcctctg	240
cctaagcatt	tgaagcattt	tatgtttctg	gtaccgggtgt	tggatcatgg	cgtacaatta	300
tgcttagctc	tagctactga	cattccat				328

<210>	32811
<211>	350
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      32811
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catttgcttc caaagtttca tggccttgca cgtgaagacc cgcacaaaca tttgaaagaa 120
tttcacattg tctgctccac catgaaaccc ccagatgtcc aagaggatca catatttctg 180
aaggcttttc ctcatcatt agagggagtg gcaaaggact ggctgtatta cettgctcca 240
aggtecatca cgagctggga tgaccttaag agagtattct tagaacnaat ntccctgct 300
ttcaggacca caaccatcan gaggatatct cacgtattac acaactcagt 350

<210> 32812
<211> 326
<212> DNA
<213> Glycine max

<400> 32812

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aaacataatc accaaagaga cattcctaaa acgcaaacag aaggtacata tggcataaaa 120
cctcagaatc tgagctaaat gaatggcaat tatattatag atgaatcctc tgcaattgac 180
actgattcac tgaacaggaa acttaccttc atccctctta cactttccaa tgtccacaag 240
cccatgggtt ggccaatcc ctcccatagc cacaagttca gtgaagtggg gattgcatg 300
gccatcccct cccatagcga aacagg 326

<210> 32813
<211> 316
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32813

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ttgatgaatg aaagtcttat gagatacact tcaaagttcc acttctctcc ctcttttagt 120
cccttaattt cgctctcccc ccttctctct ttctttctct ccattaaagc atcctcttta 180
agcttcttat ccatggaaat tcttggtggg gaagcttctt cttnccttggc ttattcccta 240
gtggatgggtg cctccctctt cctcttctcc ttttctctcg atgcatctca tgggtgtaaaa 300
ccccactgaa cacc 316

<210> 32814
 <211> 324
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32814

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 acacccctct aataactaag ctcacctcct taagaagctt cctttagaag attcctaaag 120
 aagtcagagc ttagttacac tcacctctct aatagctaag ctcacctcct tgagatgaga 180
 agctagagct tatctacaca ncccctataa tagctaagat ccccccatg ccaaaataca 240
 tgacaataca aaaaaagtcc ctactacaaa gactactcaa aatgccgtac aatacaaggc 300
 taaaacccta tattactaga ctga 324

<210> 32815
 <211> 364
 <212> DNA
 <213> Glycine max

 <400> 32815

 ctacatattt tctatagtgg tttgaaacct cagacaaaga tggttcttga tgcctcaact 60
 agaggtacta tgatgtctaa gagcctaaag gaagcaattg taatcattga ctccattgca 120
 gcccatgatt atcagagtca ccatggtagg actccaattc aaagaaaagg tataatgaac 180
 cttgatactc attatgcaat tttaagtaac ctttatcaac taaatagctt acaaaagtta 240
 agaataattt acctaagaat tgtcttcaat ccttcttatt ggactagact tagaccaaac 300
 atcattattg taacagcata tttaaaccac tatttatctg ttatccctca tttaaaataa 360
 gttc 364

<210> 32816
 <211> 302
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32816

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 ccaagccctt actttcgagg ggcaactccc accttatgaa gactatcccg ggcaagacga 120

tggggaatga gatacccatc ttggccccct gctncacctc aaagatccat ccccgcatga 180
 actaccccag ccgaacatag tccactatat cccggcctca cccacacccg taaaagaatc 240
 tgtctccttc gcggaagata acggaaaagat tgacgcgctt gaagagaggt taagagcagt 300
 cg 302

<210> 32817
 <211> 415
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32817

aagagacaaa tattccaact gacttagatt agcatattct ttntgaatga caaacaatgc 60
 gcctaccagg gaaggagagt ctgctgatgg aatctcccat aaccataaat gagattttgg 120
 atgttagcat ttcgtttcta aatgaccatt tagaggaaac actgggttcg acaaaaatag 180
 aagaaatcca ctcaaagtgt atcaatctcg cacaggtaag tgtttcatcc taattccgaa 240
 ccatagatat gtcatgactt gactttgcaa attatttctt atcaaatcaa aaattacatg 300
 cgtgatcatg gatcaatagg gcttcccttg ggaatgggtt cttttggtgg tctcttcttt 360
 cggtttttgc gtgtatttgg cttttgattc tcttggtttt ttctttttct gttct 415

<210> 32818
 <211> 331
 <212> DNA
 <213> Glycine max

<400> 32818

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 cttctcttga gctcattgcg atcgtgggtg ggacttgagg cttccaacaa aaccagtcta 120
 ccaccgcacc gcgctgccat gtcgcatgtg ttctgggtctc gcgtcgtctg gtctcgcac 180
 gtctgaacag ctccaacctc ccgtgaatga agaacaggga caaacaccaa atgaaagaac 240
 caaaatccct aaagcacagc ggaccagtgg gcacacaatg atgtcgtata gtggaaaaaa 300
 atatctcaac tgaactcgcg tgattccccg t 331

<210> 32819

<211> 293
<212> DNA
<213> Glycine max

<400> 32819

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tgcattcaaa aggcattcca gactatcata cattcattta ggaagacaat cattcacaca 120
ttgctaagaa tttcatgctc cttatattta cctatgtata cacattattg ccaggtgggt 180
tccacgctac cgttatgtaa acatcaaaca ttggggcaaa cctaaatcca gcaaaaactc 240
ttacaagcaa atcctaattt catgtattcc taattctaaa accaaatttg gat 293

<210> 32820
<211> 304
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32820

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actctaaaac tactctctct ccctgcaact atggactata attgggctga caagaatggg 120
tcagacttct gaccctcacg gatcttgctc aagagttcgc tgggtgactct caacataccc 180
aacttaatgc tactacaggt gatctcacat gccaaactca tgtctctaaa ctgctctaag 240
aagcccaact ctctaacatc aaaccagaca tttgaaggat ttctactta cgcataccta 300
ctac 304

<210> 32821
<211> 331
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32821

gataaatcaa tgtgaatgga cctcggttcat ttacttatta gcattgttgg cgtttgggac 60
catactatct ccaaatgtag acggcctagt ggacttagca gtgatcgaag cctttcttgc 120
ttatcatcac agcaatgaaa gcccgatcat cactatntta gccgatgcat atgatacggt 180
cgacctgaga tgcgaaaaga gcagtgcgaag aattgtctgt tgtatgcctg ctctttatgt 240

gtggttggtc tcccatgttt ttcgtcatga aggtaggcct gtctatcctc tataaagtca 300
tcacatgtgc cctgaaaggg aaaagcaa t 331

<210> 32822
<211> 233
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32822

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actgaaattc cttaaagctag caatgtacgg ggcaaaaact tataatttta aggattaaat 120
tctggatatt taaaaataa acaatacgaa aacctgacga gtagctactg aaattttccc 180
tttaaaaggt ccacagatga aaacttcnaa ttcacgacta acacaaacat gac 233

<210> 32823
<211> 355
<212> DNA
<213> Glycine max

<400> 32823

agctttttgt ggggaattta tccgatctag gtgataacaa ggctggtgac tcgctaacag 60
ccaaggcaaa ttactaaagc caactttaat tcttttcaact ttcattctat caccaaataca 120
agagccatta cagaagatgt gcactatctt gatagaattt tctataactt ggaattcagc 180
ttctcttaaa taaattaaaa ttaaagatct tttgaattca tgaattgcta ttttcattat 240
tggtgcata tggtatgtat aataatactt tggattggtc agatttgcat ttaatgctag 300
ttgctcaatg gtgcgatatt atctataata tagaattggt ctgtaaagaa ccatg 355

<210> 32824
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32824

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agtatgacag tcaccgcttt aggagcgctg tacaccagca gcgcttcgag gccatcaagg 120

gatggtcgtt tctccgggag cgacgcgtcc agctcacgga cgaccagtat actgatttcc 180
 aggaggaaat acggcgccgg cgggtgggcat cactgggttac tnccatggcc aagtttgatc 240
 cacaaatagt ccttgagttt tatgccaatg cttggccaac ggaggaaggc gtgcgtgaca 300
 tgagatcctg ngtaaggcgt cactggatcc cgtttgatgc cgaccta 347

<210> 32825
 <211> 158
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32825

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 tcatcataat ctttngngtgc ttgtgcgcat tctctccaaa gatcacatct tttttctttt 120
 ttgatgaata tgtacgtcat taagttcctt aatatcct 158

<210> 32826
 <211> 356
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32826

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 gactaatagc attaattggt tcaatgctaa tacgatattt ttattttata tagaaatata 120
 gtattgtatt agcatgagaa aacataaata aaattaagac aaagattaaa acaacttaaa 180
 aaagaaaaaa tacagataat ttaatttaat aaattatgtg agctaataat taatgttttt 240
 ttgtattgaa taattagttt atatataata ataaatttaa ttatatgata taagttggat 300
 cgggttgggt taaaaaata taacttggtg tccaaccgt atatgattan gtctta 356

<210> 32827
 <211> 413
 <212> DNA
 <213> Glycine max

<400> 32827

ttggagggtt tggatgaata cctcaatgat gcattgaacc ttgaatcgag ttttgaagac 60

ccccctaatt ttattttatt gatattttat tatttaataga tttgtagctg tcatgcgtgt 120
 tggtcgttgt tgtattactg agtggttttc atgtgtgttt taatggaaaa agtgtgaagt 180
 atgaattgaa attgtataag tgtcaaaaag ttgccctcat agattgaaat cttgaagtat 240
 tactgagtgt ttttgccact tcgataattc attttagggg tgaatcgaga cccaaaattt 300
 gtcttaataag tttcattgac atgaaaaata caggaataaa aaattatttt aacaaaaata 360
 acttatacac ataacaatct aagtgccaaa aattaccctt atgaattgaa atc 413

<210> 32828
 <211> 345
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32828

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 ttgtctcttg ccttggtatg aaccagctc actatgccct tattttcccc aaattctggt 120
 tcagttggcc ttttccagct tactagttcc atcaacacca ctccaaagct gtacacatca 180
 ctctttctcat tcactttgta cgtgtagcca tattctacac caattcaaac aaaatccata 240
 cattaataag catgattaaa gatcgcaaat taacatacac aatacactac aactcatctc 300
 ttatcaaaag acaggagcta ctactcaatg ctaaccagga gcaat 345

<210> 32829
 <211> 287
 <212> DNA
 <213> Glycine max

<400> 32829

gatcgcccaa taactggcta gttaagtatg tgaaaaaatt ctttgcagtc caaagactaa 60
 tgccccgggt taaagttatt tacaccagaa ccataaggaa aagtttaatt caacaaagaa 120
 agaatataaa attacgggga caaaattcgc attgatgggg aaatggaggt acccaattga 180
 ccaaattgttg aaggcaaaga gagaaaatgg aagaggactt actatcagct gcagaaatct 240
 tgagctgctc aagagcgggg gcattatttg gagcacccga tgatgca 287

<210> 32830
 <211> 287

<212> DNA
<213> Glycine max

<400> 32830

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aatttgtacc tgtcgcaagg gtttgtggtt tgtgctcttc tgctgaccac catacagacc 120
tttgcccttc catgcagcaa cctgcagcaa ttgagcagcc tgaagcttat gctgcaaata 180
tttacaatag acctcctcaa cctcagcaac aaaatcaacc acagcagagc aattatgacc 240
tttccagcaa cagatacaac cctggatgga cgaatcacc taacctc 287

<210> 32831
<211> 309
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32831

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gaaagattca tgttcccttt tacacatggt ctgtagctac attctatttg gagccatata 120
aaaattgtac tgatactgcc taataaagga aaccattang tcttttttagg aacggaccgc 180
ggaagacttc agatngctgc accagggtgat ggggtgcccta ctaaactttc ctagaagaaa 240
tgcatacaaa tttctcattt ttgcgcatgc cccattttct acagtacatc tcaagtgaat 300
tttgggcaa 309

<210> 32832
<211> 349
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32832

agcttgtgca aatcaaatca ctctacatt gcactcttag catgcatttt ctttctttac 60
ccactcctca cgtttggttt tttagggaaa aacaccataa ctaaagcggc cgcaagggtat 120
ccctatcgca ccagatccaa atctagaacg atgggtgatc aagaggagac gcaggaacag 180
atgaaagccg acatgtcggc tctgaaagaa caaatggcct ccatgatgga ggccatgtta 240
agtatgaagc agctcataga gaagaacgcg gccaccgcg ccgctgtcag ttcggctgac 300

gaagcagacc cgactctctt gcaactacgc accatnctcc ctcaacata

349

<210> 32833
<211> 330
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32833

aatcttttgg agggcccaag tgggcttggg tgctatttgc atccccattt ttactaaata 60
cacccccctg ctttttttgg tgattctttt ttcgtaaagt tacgaaaact tacgaatttc 120
gtaacgatac ttgttttctt tccgtaatgt tacggaacct tgcggatcac ataatcatcc 180
ccttcttgac ttatggaatg ttacggaacc tactaattg tgaaacgatg cttccatttg 240
atctccagtg tggcacggaa ccttacagat tgtgcatcaa tattntcttt tgtttccgcg 300
atgtcccga atttaciaat tcttaatgat 330

<210> 32834
<211> 308
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32834

acctttgtga gttgaaacaa attgaacggg cctgaaaggg tggccgaaac attaatggg 60
catccaagaa attgttatga aacatcttga atgatgtcat tcccatatat taagctttgc 120
gagttgggtca aagaaaggaa aaacaattaa agacatagct tttaactatt caagagtang 180
ttgccatact ctttgtcact attcgccaat caactactac tatatttaca tccggtcatt 240
tccaacactc cgtagacact attcataaga actctaagag tgggtctaaaa tccatttgct 300
atctttct 308

<210> 32835
<211> 405
<212> DNA
<213> Glycine max

<400> 32835

cttaattatg tctcacttaa ccactaaggc attttattta tgcttacaag gttgagattt 60

tatgtttctt ttattttcta ccaagtacat aacaattgac ttgtagcgat cctcaaggct 120
tatcaaakat cattgattgt gggtcctatc ttgttcttcc tttcacattt ttttgtttcc 180
ttgtttaatt cccgcaatgc taattttgta attctgtccg aatttcttat tttcatatct 240
ctcattatac ttaacctttt tcggtgtttt tttgtgcta cattgcgttt cataacgtcc 300
tctttcacct cgttttggaa tcattccatt ctgtgtactg tacgctaaaa aacaaataaa 360
agttaaaatg catttatggc tcaattgggtg tgcgaattcc attct 405

<210> 32836
<211> 331
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32836

attatggcgc acccatcaga tgtggtacta cgtggcggtc gggcgatggt gcacaacaag 60
ttttccacat ccacaaatcg cgcataaaca caccatcccc tgttgcccac ctccaactga 120
gctcacgtac tcccacgtag cccatatact cgtttctctc aacaccgggt ccccatcaat 180
cctcccaagc ttccccaaca tgcaagtaat tcaacattca acagcacaaa ctatcacagc 240
caagataaca cggcaaaggc agaaaactct gccataacac caaccacaat cacagttttt 300
ctcacttaca gaccnacta acaattcctt c 331

<210> 32837
<211> 472
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32837

agccgccccg ngttagctcg ttgacantcg tttggatagc aacanacgct tgggctaagt 60
ggcttggtta aaatacccta cttagtgta tttcncctt cgaaccgtgt ggaagtgtga 120
ttggtttgcc aaccgcctga ctctttcttg aagggtgatc ctaaaacaac tacctactcg 180
tgtaactcta agaaggaagg ggattatcgt ggacgatggt ggggtgtgttc ttttcggtga 240
tgatcacgac gaatcacaa actcgttgat ggggtgcacc ttctcatacc tggatctggc 300
gcatcaccta tcaattgggtg gtgtatatatt gggcaagcta gaatagtccc acatttcaat 360

acatgcaacg cgggtgtagtt tgtcagcggg aacaggacgc ataaaactga ccatcccatc 420
tcgtcctggg tcgatcgact cttttgttaa acacgaactg tctacttttg cc 472

<210> 32838
<211> 318
<212> DNA
<213> Glycine max

<400> 32838

agcttggatt gattcagtct aactagggat agaggtttac taatctacgc tataacaatac 60
aagacaaaag catgattgat cagagaaaaca tctctatata catcagcctg gttgttacac 120
agacctaaca tctttaccta ctactgtcag tcttacgggt tttagcctag acttagctta 180
actctgctct aaatcatcaa ttatcaatgt ttctttcaac aatgccttat ctctgaattt 240
aaccttatct aagactactt ccttgagttc gatactcgga ttcacccgct ttaattttta 300
atacttgacg atccgatg 318

<210> 32839
<211> 395
<212> DNA
<213> Glycine max

<400> 32839

gttatcatga caacgatata tggattacat tatatcttga tgcaatgaca tatcccatgt 60
ctgttatatc catccacttg tccacactaa cctaaatcac aaaaacatac atgtgtcagt 120
catgtaaaca ttatttataa aaaaaggcat aaacaacata ccttggataa cccatccaca 180
tgttagggaca acctcaactg ttcaaatttc tccgtgccac caaagagctt tatgtagtct 240
tgtgaccatt tgccatgttc tttaatcaat tcattgcgca tcagtgccca agattcttct 300
cccatatcga acaaagcagc aagtgactga tatccacagt taccatctgc ttccacatca 360
ataatgtcct caatgaaacc ctgtataaat ggtgc 395

<210> 32840
<211> 194
<212> DNA
<213> Glycine max

<400> 32840

gaatctttcc tgtataatat agagcttggt ataccctaatt ttcgtctggc gaccgttgat 60
 tgggtggaatg caaccttcgc ttcaccgctt ctaggtactt aacacccgcc gttaggcaat 120
 ctgtgaagtt ccacgacatg tctgaagtcg aaaggaagca ttgttgacaca atccgtatag 180
 ttctgcaaca ttcc 194

<210> 32841
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32841

gcgaacaggg ctattannct aancccgctt tgaaatagcc ggctacgttg gcaacgagac 60
 acggcactac tttctagtcc aaaaagtaag ctagccgccc cacaacatag atgcgacaat 120
 atcccaagct ccccgaaaag aggttaggac ggtgatcgct cttaccccag aggcaccatg 180
 tggatggacg gttgctctac ccttgacggg agtccagaac tttcccgaat ggtagccaag 240
 ggccaaagcg atgacagaca cctactcccc cccgaaaaat atacgggctt ctgctattg 300
 taacgtatga tagactaagg cccacgtaat agaaatcgta gaaacttggt gacgctcaaa 360
 cctgacaata tacttctttt gaataaatga gttgtccatg ttctactcaa acctggcaat 420
 caatct 426

<210> 32842
 <211> 373
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32842

agggtggcatg ccctacttgc gctttaacga tcaaattgaa acctgcaaaa tcagagtcta 60
 caaaggctgt tagattcaag gaggtacctt tgggatacca cacacctaca tcgggtgtac 120
 ccatcaagta tttaatgggc cttgaaacct gccaaatcag aggcttgaaa gcctgttata 180
 tttaaagagg tacctttggg ataccacaaa cctacattgg ctgtaccctt aaggtattta 240
 atggtccttc taactgcttg ttaatgagat tccttacgat tcgactgata tcttacacat 300
 aagagaacac ctagcatgat atccgatcta cttgtagtac gtagagagtg atccaatcta 360

cctatatatt tgn

373

<210> 32843
<211> 126
<212> DNA
<213> Glycine max

<400> 32843

acaaacatta tgacctcctg caaaatcacc ctgatggaga tcacctaatt aatggctacc 60

ctcacacaca acgcgctgtc ttcttcaa at gtctggccat aacatcatcc tcacaatcac 120

acacac 126

<210> 32844
<211> 392
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32844

agctttatga taaatgaaac caaccttgta acatgatgta ttgcatttat ttccatcatt 60

acatagcatt ttgacaaaaa ttacattgc atattttgca ttttaagcctt agtcttaact 120

tgttttcatt gttttccct tcttttagaa cttgttatgc gtgtcttttg ttgttagcat 180

aagttttggg cttggaaaca ctcaagtc at tggaagacat caaggaatgt agccaagagt 240

ttttaaggtc caatgggtga attgaaaaca atttgggaga gtctggaaca tctcatggcc 300

tatgagatcc actgtttnta aacttgtaa tctttagag catctcaagg tcgtgagttg 360

catctcacac atgtgaagtc gacagcataa ca 392

<210> 32845
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32845

agagcgtatc ttanacncnc tttatataac tagaggacat ttgcccttaa tctattgcag 60

gggttgcttt ttgtggactg gcggggactt gccgagcgt ctaaggttct cttcccctct 120

gcgtataatt aagagtcacg ctttttgatt gtttactgcc tccatataat tcttcgtaag 180

tataatctag tcataaaaata tttcaaaaat actgggatat atttaacatc aggcattgtg 240
gacttattca ggtaacgtct ttgagaaaaa ctatgggtgtt ttattgaaag attttcaagg 300
aagatggaat ctacatgcta acgcttattg atttgggtga gatccaatac atccacgtac 360
taattgcctc gttgatactt aaatcg 386

<210> 32846
<211> 239
<212> DNA
<213> Glycine max

<400> 32846

ttccatcatt acatagcatt gtgaccaaga tttacattgc atatattgca tttaggcctt 60
aatattaact tgtcttcatt gtgttcccct tctattagaa ctcgttatgc gtgtgttttg 120
tggttaacat acgttttggg cttggaaaca ctctagccat aggaagacat ctaggaatgt 180
atccaagagt ttaaggacc aatgggtgaa tggaaacaat tgggagagac tgaacatct 239

<210> 32847
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32847

aaaagagagc aaaaagacaa caacaaaaca acagagaaaa cccgggggan naaaggggag 60
actgaccna anaaanaccg aaaaaggaac aaaccaagg atgttaaaaa aggccccacc 120
ggggggagac aaacgaaacc caggaaaaaa ggggaaaaca aaaggggaaa aagaaaggcc 180
gacaacacac gaaaaaagaa aaaggggaaa cgggagaaac tcaaaaacta aaaaaagcga 240
aagagacaca gcaccaacaa agcacaaga cagctgacgg aagagaacca ggcgaaacga 300
aaggcaaaag ggaacgccag accagaaaac gaagtaaaaa gaaagcaaca cgaaa 355

<210> 32848
<211> 302
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32848

tcactaaagc ggtgatccat ctccacacat attttatcaa tagcaacata naaaatctct 60
gcacggtaat gatgaagaat agtgatagtc ctcccttctg ctcttgaacg accccgaact 120
ggtatttcgt catccatatt tggtagcaga atactnttag caacacaaaa tccttggaca 180
tcggcaaaaa aattattcca gccactctct ctcatgtg ccaaccgagc ttgacaaca 240
tcaactaatt ccatggcatt cacaatatta agatcttntc ttgcaatat atttgaaagc 300
tc 302

<210> 32849
<211> 124
<212> DNA
<213> Glycine max

<400> 32849

tgaatatata tatatatgaa agctttttgt gaaatcctta agcttttaaaa gaagtaacca 60
tgatagatgg actctgttat cagttatgtg tataagggga cccaaacaga acacttgta 120
cgat 124

<210> 32850
<211> 178
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32850

taagtattaa atggcagcgt caaggagatc aaaatacaac ttattttcac aaattagcac 60
atattatgca tgcagctaag aagatgtcag ttcttcaaag tggggatggt atgatggaat 120
cccaagaagc tctggatgtg cttggctgtt tctcgtatat ntatgggaga caataact 178

<210> 32851
<211> 285
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32851

ttttcttcat ggaaacaatt tttccaagca aattcgatag agagagaagt tcctaagggg 60
ttgaaccctt tntcacttca cttctcccc tatttataga caaaaggcgc agaagacgac 120

gttagtctct acgtgctatc atgctntgag tcttagagat agcanaagaa agttttaaag 180
 tgccgggacca aatgggtccc gcatgtcatc gggcccgccg cctctggatg acanaaggcg 240
 cagaagagga cgtagtctc tgcattgat catgctttga gtctt 285

<210> 32852
 <211> 298
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32852

tttcttgta gaggtaaaac ttcaaacct tgccattntt tctttcatct tcttattcct 60
 ttaacaaggt tcattatgag tcttgattta ggcattgtca cgttggtttt ttgttacttg 120
 gtgatatatg atttctatca atacttcttt gcatgtcatt ataactatca tatntagata 180
 gctntttcat tacagaggca atgtagtttt ggaacatcaa ttttaatggg tctcttggt 240
 gttgtcctat gttgtgtcan cgtttaacgt tagattaana attaagccca attatata 298

<210> 32853
 <211> 273
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32853

gggcctttcc aagtggaagg ccttgaggga aagaggtatc cctatgttgt tgtggatgat 60
 ttctccagat ttacctgggt caactntatc agagagaaat cagacaccct ttgagtattc 120
 aaagagttga gtctaagact tcaaagagaa naagactgtg tcatcaagag aattaggagt 180
 gaccatggca gagagtttga aaacagcaag tntactgaat tctgcacatc tgaaggcatc 240
 actcatgang tctctgcacc atcacaccac aac 273

<210> 32854
 <211> 277
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32854

atgaagaaaa agtggagaag aacgtttetta tacctgctcg actatctcaa gaagaagctg 60
 aggaagaaga tccaggtgaa ccaccttcac ctctaccata acaacaagat caagaactag 120
 catcaccaga gtttactcca agacgagtaa gatctttggg ggacatgtat ganacctgta 180
 acttggtcat acttgaacct ggaagctctg aagaagcgtc aaagcaggaa gtatgggtca 240
 agggcaatgg agaagagata canatgatcg agaaaaa 277

<210> 32855
 <211> 398
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32855

tgtctttttc accaagagag tgccttggat aagaagctta gagaggaaac ttcaatggag 60
 gaagataatg agagagagan agtggcatga aaaattgaag gaagaaaggg agagagggtg 120
 aactttgaag tgtgtctcac aagactctca ttcacatcanag ttgtgacaag tggtacacat 180
 gcttctatct atagcctang tcaactaacta aatgaaattc acttgtcttt cattntatgt 240
 gaaactaaga agaattattcc aaggatatgt canaggcatc ttagcatatt ccaagaatat 300
 gccaaaggca tcttaatatata ttctcttttag atgtcacaag aataaaaagg gtgactctag 360
 cacatggaaa aggaatatgt cacaagaata ttctaaag 398

<210> 32856
 <211> 192
 <212> DNA
 <213> Glycine max

<400> 32856

aagtggagaa gaacgttctt atacctgctc gactatctca agaagaagct gaggaagaag 60
 atccaggtga accaccttca cctctaccat aacaacaaga tcaagaacta gcatcaccag 120
 agtttactcc aagacgagta agatctttgg tggacatgta tgaaacctgt aacttggtca 180
 tacttgaacc tg 192

<210> 32857
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 32857
 ctctgtattgc atcaccattg gtggagggtct accaaaaact gcttgaaatg gtgtcatacc 60
 caagcttttg tggaaggaag tattatacca aaattgagcc caaggtagca tagtaaccca 120
 actcatagga tgatcaaata caaagcacct tagatacatc tcaaggggtct tattaagatt 180
 ctcagtcagg ccattggatt gaggggtgata tgaagagctc atggccaatg ttgtgccttg 240
 agctttgaat aattg 255

<210> 32858
 <211> 267
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32858

cgcccgaccg ccacctagta ccacatgtga tgggtacccc ataatcctac aagcttgaga 60
 tgaggaagtg ttgaaggggtg aaacttcctg ctnttattgt tgaccacaga gtggtacctg 120
 gagatatgtc gcgggggtca ggagaccttg nggacgtcag gtgggggtgct attgccc aaa 180
 accaagcttg accaatccccg acccaacccg ggcatagtcg gtcagtgaga acctgtgatg 240
 tacctaaaca ggcgagctcc tggcagt 267

<210> 32859
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 32859
 tactcagctt gtaaagaact taggaaaatc aagaacaaac ttgttcgctc atcgttcgcg 60
 tgtttgatat ccactcgaca aggtttgaag taaaggaaac cttcaatcct ataacgcaac 120
 gtggcgggaca aaagtgggca gttaacttga atgaccttta ttgtcaatgc ggaaggtatt 180
 ctgcgcttca ctatccatgt tcacacatta ttgcaacttg tggttacgtg agcatgaact 240
 actaccaata tatagatggt gtttacacga atgagcacat cttataagca tactccgcac 300
 agtgggtggcc tcttggaat gaagcggcaa ttcctccttc tgatgaagca tggacactaa 360
 tcccctgacc caactacaat tcgt 384

<210> 32860
 <211> 268
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32860

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 gcccctactt tcgagggggca gctccacact tatgacgact atctcgggca agacgatgag 120
 gaaggagata cccatctcag tcccctgctc cacctcanag attcgtcccc ccatgaacta 180
 cccaaccaa acatagtccg ccatattccg gtttcaccca caccgtaaa agaattctgtt 240
 cccttcgtgg aagataaggg aaagattg 268

<210> 32861
 <211> 469
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32861

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 cggtttagaga aacaagtttt tggtttacct tggaatcctt aacctaagtg gaggtggcca 120
 caggggatgg tgggtttatg cgcgccctgt ggatgaagaa agcctggtgt gcaccattcg 180
 ccgaacggca cctaataaca catgtgatgg gtacccatt attcttacag cctgaaatga 240
 agaagtgggtg gagggttgaa cctccttctt ttattggtga ccacagaatg gtaccttgag 300
 atatgtcgcg ggggtcagga gacccttggg acgtcatgtg ggggtgctatt tgccaaacca 360
 acttgaccat cccgaccac ccggcattag tcgtcatgaa acctgtgatg tacctagcgg 420
 cgagctctgc ngtcacagat naaggataca gaccaagca agatgctgg 469

<210> 32862
 <211> 298
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32862

 tttgcatcaa accaccgtga gtggagttcc ttctctcttc actcttctct tcacacccat 60

cacacacctt ttcacacatg tttactgatt aaaattataa aatcgttaat aaatctctta 240
aactacctgg caattataaa gaaatgggtcc aaaaaaata ttaaaaagtt tggtcctata 300
aatacagaat aatctttgat tattgacaaa tgaggataga aatcctgagt tgaatttctt 360
ttttccaaat ttaaaacaag caagttggtg acctcaatgc tttaatgggc taaggggtgt 420
gggaaggaat taaaagatct tatgccaata caagaggggt gatttttcaa acatc 475

<210> 32868
<211> 499
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32868

aggggtagct gngcttgat atcacggcaa ttattctcnn gaccngggat cctctagagn 60
ggacctgaag gattgcagcc tatactanat ctttcttaan ccacacacac actgagcaag 120
tagtcatatt cagtccatac ttccaatcga tcatgctcag tatgatgcat gcacctaac 180
tcaactctca tatgcaatgt gttaccatcc ccaaaggata tagccctaag cgtgtccata 240
tgacactctc acttangaaa actangcaag tagtggtgag gtcacccggt cgtgtacagg 300
taacttcccc cccccacag tgatcagcct gaatctcaag ggagttccaa accgagtgac 360
atgcccccaa gtacaagtat tccttctcat gagaaactgc aagtacttac tggacaagtt 420
tatactatctt ccatgtcata tgaagtatga tacatgtggc accatcaatg cactgaccag 480
gataattaa tattctaag 499

<210> 32869
<211> 336
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32869

agctggatc tagacncana aatactagtg agaaaggggc cacaatgggg aagttttgtt 60
gtcaagggca acattttccg ttccagggcc aaaccccctc cctgtgcacc tctttgactc 120
agtctccact accatatctc ttctctacat ggtcccataa tctttagctt cacactcagc 180
aacatattaa cacacagctt acagcagcaa cagaaagcga actttgtaca acaccaaacc 240

<210> 32872
 <211> 158
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32872

tttacaacct cagttccctt cccttatcaa tcgatttcct caaagcagta agatatagat 60
 cgtttcaccc tatttatcca aaataccana aatggataag aaaggatcat atgttgagtg 120
 acaggggtgag caagggaggg actaaaatgg gagcccca 158

<210> 32873
 <211> 461
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32873

gcccnnggg gttctagcat ganctgaatt tgaaccagcc cagataacnt ttcttggtgcc 60
 tactttttat cnnncctt ncaacttggt cttttctgc acaaatttat agcttttcac 120
 tggatgatgat catgaaaggc ttaacnctc tatcaatccc aataatccac ttccaagcaa 180
 ggttgaaatc tgagtattgg gttaataatt tccatttttc attaattatg aatatgctta 240
 agactgaaaa aanaaatagg gttaggattc ctttctaata ttaaaactta atcacaaatt 300
 gtttgaatga tattcaaacc taaattgtaa tctcaatgaa tntaaggatt aatctgattg 360
 aactaactct aatgacattg attgaactct tacatcttga tcattctctn tagaatngtg 420
 ataatttatc tgcattgggtc tagtgaacta aaaatgatga g 461

<210> 32874
 <211> 351
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32874

agcttggttc tacactaatg ctatactgga tactagtata ggttggaatc ttattaatat 60
 gtatataaca atgttatacc aaactctata tattctgttg tgttttgaat aggtgtgtat 120
 gagaatgatt ttttagacat gtattgtgat tctttagttg ttcttcattt ttctttcaca 180

taacagaccg ttcgaacga acataattat ttggaatttg tatctctcat atttgattcc 240
 atttgccctca agtactangg cctgtgnntt gctgaaacta acataattgt tttgtttgct 300
 gatatttttt tggaggccat tattgagaca taattaattg aagcatttta c 351

<210> 32875
 <211> 456
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32875

agccannnnn naagggngt cggacngacc cgtactnctg cgacactata taaataactaa 60
 gctcgtcacg gtgagacatc agaggctagt antttaataa tgtgtgtann gaaaaatcac 120
 caaatggata gagaaaaatc tataatcata catcttaggc aaataanggc ttgctacccc 180
 caacaataat ggctttttga ttcattcttg acattgtgat tttgaaaata aaaacccaaa 240
 gttatttaggc attttatcaa catacaactc ccaactgatct gcaaaagaaa tatgagtaaa 300
 aatggaactg cgacaaaaac aataaagaag atgattttctc ttatcattcc agaaagaaaa 360
 tgangaacca ctgcaacaat ttaattcct atggacatat acactatgaa attacagtaa 420
 ttaagttata aatgcgatga attataaaaag atttcn 456

<210> 32876
 <211> 311
 <212> DNA
 <213> Glycine max

<400> 32876

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 aattaagaaa ggggagttga attaattatg aacgtgtctt gactaattaa aaaattatcc 120
 ttcttaatgt tactagattc aattaggctt tactactaaa ctatgagaaa gtaaagaaca 180
 gaaacgataa cttagacaaa agtaaagcgg agataaaaag tacacaacgg atagataaag 240
 agtgtaggga agaagaagac acacatcata tttatactgg ttcggcctca acccgtgcc 300
 acgtccaatc t 311

<210> 32877
 <211> 267

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32877

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 aatcataaca tcttggagcc atagttgacc taagtgaat ataaaaagct tcacacttaa 120
 tgagtgcga ctccactttg tgcaatctat gctatcgagt agcccactta tctaataaat 180
 ttgtttgtgca aaggatatgg ccagattgct tgaagaacta caacaactat atcagggagg 240
 catttcaact tagaagtgga acaaaaaa 267

<210> 32878
 <211> 373
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32878

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 tatatgctgg gaactagga atcctacttt tcaagtcttt tttaaagtga tttatatgag 120
 aatttaacat taatatTTTA aaaaaaaatt caagactcca taggaactac aagagaaaaa 180
 aatttcccgT gagaggaatc aagaacaggg atggngagtG aggtagtatt ccccgccctg 240
 ttgacatccc tacattgaac taaagtgata aaaaaagtaa gattataaat aagagtacat 300
 ttataaagat actntatact ttgggtttct tatgttacac aactcataaa gtatacacat 360
 atgttaaattg atg 373

<210> 32879
 <211> 198
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32879

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 ttggaccaac gttccaagta cagctcactt ttagaggatc actaacactc gacaacatga 120
 tcgactaatc atgatgtatc gaactatgta ctactgttac actatccatg caactcagta 180

<210> 32880
 <211> 522
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
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 taggagtcga cctgcagagc ttgcaagcct cttanccatt caagaataaa ccagcgcatt 120
 ggtgatggac tgtgaaaggt ttgaaaacct taactccttg aaagcgcttg aatgcaatcn 180
 aaacactttc agcaaaaaaa gaaaatccat atctatgaaa cttagggtcg ataatnggaa 240
 tgagaatgag aaaacggttt gagtaccggt atcgtgctgt ttcttcggaa agacaaccag 300
 tgtgcgaaga aagataangg agnnggtgga attggtgctt gtggatgcmc ctcggtggct 360
 ccggaacgat gaagctcttg aagccgaagt ggaggtggat gaacccttac gtttctttga 420
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 aagaagatat tgcagtaccg agtcgattga tgagaaatga tn 522

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 <211> 385
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
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 accaaagtac cccaaaggca aagtaagccc atttgtctcc aaaggtgatc ctaggtggca 180
 atgggcctta tacaccttga taagcctttt aatgataacc caaacatatt ttggcaccca 240
 cttacaagat gggccttttt aacaactaac acttaaattg aataagtgtg catttatctc 300
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 tgtgagagct ctgcttcttg ttacn 385

<210> 32882

<211> 440
 <212> DNA
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<223> unsure at all n locations
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 acggtccaat cncctgccca acaaattacg catatgaaaa attggtcaat tggataccaa 180
 caacgtggtc aaacccggcc tcaatttaca tattccgggtg cgcggtatccc ccctgctttc 240
 tcggctctct gataccctga aaagaaaccc aactaaatcc gttgttcact attctccccg 300
 gccggttatt ttcttgcttc cggtgtgttc attaaacggg caaggcgata gcctcgtatt 360
 catgacaacg ttatgcctgt tagtggtcca tgagtatttg acatccttat catgttgctg 420
 tttataaact gcattatgca 440

<210> 32883
 <211> 353
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32883

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 tccgtgagta attatgcgaa gattctcgac cgttcttcaa gattcatcgt ccgttcttcg 180
 ttttcttcag tcttcaacgg gtaagtacct caaaccaagc ttttcaattc attctatgta 240
 cccgtgggtg tccacattnt gtttcatgta tttttattct tgttntcatt tactttntat 300
 acccactntt gacgtgctta agccatttat ntaagtcatt tctcgcttaa tct 353

<210> 32884
 <211> 460
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32884

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nanacagggga gggngcacac tccttttttt taaaananac gnnncncg gggggcgggga 120
gagaaacaaa cccccacaa cccgggaggg agccaaaacc acccgcgcgg tacaaaagga 180
cttcacaaac cttgggggtg ggccccgctt ggaagaaggg agcctcccct accttcaagc 240
tcaaccctgg gtcttcaaac gacaatccca gaaaaccacc cctacacaga ggatcacgtg 300
gccgaactac catttacgca ctcaagtaag ggactctgac cctaaaagac tgtcaaacga 360
gaccttcacc ctggtgtgaa tccccattg gagcccggtg ctgagtattg catggcgata 420
ttctgccacc accactacct acatttacca tccatcaccn 460

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<212> DNA
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<223> unsure at all n locations
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gtgtaaagtt tctaattgca gaaatatggg attgactnta ttctttgtat ccttaattaa 180
atcctatctt gattataaaa ataaggatta catgtgtggg tattacacac atcagaaaac 240
acttcgttca cact 254

<210> 32886
<211> 401
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 32886

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gttttttaaa ggcaacgggc ccagggtggg aaagcaaaaa ttgggcaata aaaagggaga 120
aataaggga accctgctta aaaggcttct ttatcggtta atttcccaa cccacattgt 180
ttaattcaca attacaacct ttgtcctacc tacaccata ttcccaaagg ctttctatt 240
caacacaaac ttggttacca ctttcatgat gaacacactt tacaccaacc aaacatcacc 300
aagaatgatt ttgatcgaaa agctgtgatt cacccaaatt cgtgtatatg ctactgtcct 360

attactgata tgcatttagt ataacctgca nggtctaact n 401

<210> 32887
<211> 413
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32887

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cacactatga aacacattgc aacatataat taatatgtga agtgactctt cttccatcca 240
taacaatgga ttgatagtgt aatctgactc tagtttctct gaattgaata ctaagtgctt 300
gatcctatgt gatatatata tgagtgcgca tgatgctact cactgtttta cctgaattta 360
tcagggtgaa atacactaag acacatgagc tgagatatgg agtacactat ctg 413

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<223> unsure at all n locations
<400> 32888

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<210> 32889
<211> 197
<212> DNA
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<223> unsure at all n locations

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 ggcggaaaaa ngncgcaaac caccaaggnn anaacgacgg agaaaccac gctacgaccg 180
 gcattcccat acagcgaagn ancccacca cccaacaatg gcagtactta gccataaca 240
 acccttggtc ttacctacca cccaattatt cacgaaggcc attcctatgt gcaacacaaa 300
 gcttgcttag cgcacttcca atgatgaaca ccaccttttg tcacaacca aagctcaacc 360
 aagaaagaat tttgctcgaa aagctcgtga attaccccaa atttcggtgt ctatgctact 420
 tgteccctatc tactgaaatg catggtggca taccctggcg ggggctaccc c 471

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 <213> Glycine max

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 <400> 32893

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 agatcaatat cactttcttt aattattnta tcatttaatc cctgatatat atgtactatn 180
 taacccttac tatataaaat ttacttaagt ctcattt 217

<210> 32894
 <211> 108
 <212> DNA
 <213> Glycine max

<400> 32894

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 cagggctaga taactatagt gctagacata gtgtgcacgc gtctagtttc tatgatgatg 180
 atcttataaa ggagtataaa tgacgctaac tacaacaaga gacatctgcg aacggagctt 240
 aatgtaaatt attccaaact cacgagacat cagtcgtggg attttttgc cttcacatat 300
 aacacgtgaa taatgtcata tagagaacaa ccctagttgc atcaagtatc ttcgtgggag 360
 gacgcaacgc ttatacttat ttgtattcgc attaaaatgt tcatgttcac tgtcctatga 420
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<210> 32896
 <211> 236
 <212> DNA
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 catgaggtga ctaatgtaag aaattatttt aatcttgag agggttgtgt taggctttcg 120
 acagccaacg taaaactnta tcgaatctct atgacatgga tcaattacgt aataatgtga 180
 atgctaggtc gttgccccga aaccaccgcg ctgtatggct cgagtacagt gtcaaa 236

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 <212> DNA
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cctaaggcac ccacccatag ggaacctccc caagttccaa ctccgaacac gactcgaccg 180
 ggcgggtatth ccacacgaca ggaactttcc ctccgaggcc ttgcccggat tcaccccgt 240
 ccaatgacgt acgaagatct tctaccattc ctcatcgcca atcatttggc cgtggtaact 300
 tcccgaaggg tntcgaacc ccctttcccg aagtggatg accctaatgc aacttgcaag 360
 taccatgggg gtgatccgn gcattccgtc gaaaatgctg gggcttanta caangatcac 420
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 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 tgatggatga tttggagaag ttatggagtc gtgttttgac acatgatgtg ttcagggagc 180
 caaatttgat gagggacttt aatggactcc cttactattg catggtgtct ggggtgtggaa 240
 ctcatgataa atttttttgt ccgctttgat ggagcataag aagttgttac attacaatat 300
 gagagggaaa agtgtcattt gactcgatt gtaggttctt accagcattc attctttagg 360
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 agtgtgcatg agtaggaatt gcaaaaagtc 449

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 <212> DNA
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 attgaatttg tgtgaacata taattgcttt ctttgtgttt ctgctatgat ctctgctttg 180
 gtatgtaaat ccctaacatc 200

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 <211> 340
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32900

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 agtctgggtg gaatctggtt gcaccaggaa aacagacata aaatgggaga acgagaaaaa 180
 aaggaaacca caaatgcga acctacacct ctacatatat gcttgcataat ttgatcaatg 240
 tacactacac gttttcctat tatttatgtc tacctgctca ctggattaat cggaatgtac 300
 tacactacta ctgtgacgca cgcatagatac ggattttgtg 340

<210> 32901
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 32901

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 aaatataaaa aaaagtcctt attacaatga ctactcaaaa tgccctgaaa tacaaggcta 180
 aaaccttata ctactagaat ggccaaaata caaggcccaa aagaagtaaa aaccaattct 240
 aacatttaca aagaagaatg gatccaacct tgacccatgg gctcaaaaat ctaccctaag 300
 gttcatgaga accctatggc cttcttttagt agctctagcc caagcctctt ggagtcttct 360
 atccaatacc cttggg 376

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 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 <211> 388
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 gagtacgtga gctcagttgg aggtgggcaa caggggatgg tgggttatat gtgatttgtg 120
 gatgtggaga atcgttttgc accatcgccc gaccgccacc tagtaccaca tgtgatgggt 180
 accccataat ccgacaagct tgaaatgang aagtgtagaa cggtgagact tcttgctttt 240
 attcgttgac cacagagtgg tgcctggaga tatgtcgcan gggtcaggag accttgnnga 300
 cgtcatgtgg ngtgctattg ccataacca agctttgaca atcccgaccc aaccgggca 360
 tagtcagtca gtgagaacct gtgttgta 388

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 <212> DNA
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<223> unsure at all n locations
 <400> 32908

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 ggaccgaggt ggatccaaaa aacccttagc taccatcgac taaaaatagc ctggctgatg 120
 tcngcaaaaa aaccttagtc gacgtcaacc gaaaatctgt agccgacatt ggctaaaata 180
 tcctagccaa ggttgaccga aaaatcacta gctaatttg actaanaagt agctctaact 240
 aatgt 245

<210> 32909
 <211> 434
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32909

gctttcttga gtgatntatt ggacattaaa aggtgtttat tgatttaacc gaaattggcc 60
 ccttcccaat ggtngtacct tcattttgcc ttcacaacac cgacgacgac gaccacttta 120

aaggtgacga acccacggcc caccctacga tgtcaatgct gatagaagga gagtgacact 180
 taaaaatgga aaaggggccc aaaggttgat cgtgttcaag tgagtggaat gagacaaggc 240
 ttgtagaagt aaaagggcac tgattggatc ctcacgtacg aaaaaaatng caagttgtct 300
 gataaggatg agtgacattg ttcttcngtc tgaccaagga atttaatttc aaatgtaaat 360
 acaataaaat ttgatttgat acttaacata aatagatatc tatatagata gataatttga 420
 aacaaaatca attn 434

<210> 32910
 <211> 381
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32910

atatatatat atatagatat gggatatatat atatatatat atatatatat atatatagaa 60
 tataaccttc attattttta ggattttttt tgggtaaaat gagaaaaaga taaaaaccaa 120
 aactttctta atacaactat gtgatgcgaa aaaacatcta tagcaaagga gagaggaata 180
 tcacactcct caatgcacac gaacataatt ttaaaaaang aatcagtcag atattagttg 240
 aagtgcata tccaatttct atagcttgat aatntcagtc ttcaaaaaaa gcccgaaacg 300
 aatcacatca canatataat ttcactccaa agctgataat ttatttntat cattattttt 360
 tggttagcat gctacatatt n 381

<210> 32911
 <211> 403
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32911

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 tttgatgggt aaaaatatatt cttctcaacc ttattcctta ggccggattc tttccttaaa 120
 ttccctcggg aaggttgac tttacttaac cacaggtgct gtccaaacct attgcaagaa 180
 gggaatcggc acttttaaata ccttctggga ggccgtttat ttcaaaactg ctcggaccgt 240
 cgacaatgga atgggtggata accaaaaaat tagtaaaccg gtctaattgtt gcttgtaacg 300

tctgtttaaa gaatattatg accccttacc ttccatgggg tgtaaggagg cccattgta 360
 aaaaaaccca ctcttggttt tctgcctgga gaaaaataaa aga 403

<210> 32912
 <211> 214
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32912

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 agttgtgtga agcatgtaac tatgtaggtc cagatagtaa acttattata acaacaagag 120
 ataggcattt gcttagaaaa gagttgggga cagacatgtc tatgaggtca aggcattggag 180
 ctttgccgaa tctctggagc tnttttagtt acat 214

<210> 32913
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32913

aaaanatgat gcctagctnn cctttgtata ntcgngngac aatnattaan nnagccttat 60
 accattaggn gagatggact acatgatcat atagggtcttt ggctcgggta agaccaaatt 120
 tgggagatgt cttgtttatc ttttaccatt attcagaacc tnttcaagtt aacattatta 180
 aacttaaata gatggaggga tgaaaaaatt ggagatttca agtttttaact tttgaagacc 240
 aagatgataa aatctatctt gagggatatat atataagggtt tacctcgatc ttaatgtggt 300
 tctcatctct cctctacatg cgatctgatg cacttctatc tgtagccaa taatgottaa 360
 ctctcttctg tgacaacang cctcatgata tattcaactt gcaagtaagt gggagataga 420
 ccgaatagat gcctactgac ttattttaca ttttatgcag cca 463

<210> 32914
 <211> 341
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

204315

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<210>      32915
<211>      491
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      32915
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<210>      32916
<211>      437
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      32916
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13709

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 tccttcctta atcacccaac ccacctatt acttccttgg gttctcttan ttattaacca 240
 aaaaatcatt attgatattt aacatgtcat gattgttatg ctatacacat aacatatgag 300
 ctctttgatt ttttaattaat gactgagant aactaattac cccttagagt gaatngctca 360
 ctacaaagga gctagatctt gtaggaattg aagcttaggt ctatacacct gtnnttaatt 420
 actntctgta ttaacan 437

<210> 32917
 <211> 337
 <212> DNA
 <213> Glycine max

<400> 32917

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 tctccagcaa cagatacaat cccggatgga ggaatcacc taatcccaga tggcttagcc 120
 ctcaacagca acaacaacag cctgctcctt ccctccaaaa tgctgctggt ccagtagac 180
 catacattcc tcttctaattg caacaacaac aacaacaacg acagcattta ctgagacaac 240
 aatccactat tgaggcccct cctcaacctt cattggaaga atattgacgc aatgacaat 300
 acagaacatg ccagttcagc atgagactat agccctc 337

<210> 32918
 <211> 476
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32918

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 agnanaacct gtgaagccga cggttcggtg actcccgna cataacaaaa cgcggaattg 120
 aatgtgaact ctaccattc aaacgacata acttttactg gatgtctaata gagccccaat 180
 attcgaacgc tcaaattgaa ggtgaacttc tagcaaatca aacgcccata ttcttttact 240
 ccgatgtctg attgaggccc gtcatatatc gagacacctc gaaaattgaa tgttgaacat 300
 ctgaatgaat tcaaacgaca ataacctttt actcagatgt ctgatatagt ctcgtaatat 360
 atcgagatgc tccaaattga atgttgaagc tctgagctaa tttaaacgac aacaactttt 420

tacacggatg tctgattgag tctgtcata tatcgagatg ctccgaattg aatgtt 476

<210> 32919
<211> 277
<212> DNA
<213> Glycine max

<400> 32919

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agatgttaca gaataaaata aagatgttcg gcgagattta tattaataa tctaagaaat 120
gtattgtatc ttctaaaatg tgataaatat tcaaagtcag gaacctcgta ttttggttca 180
tgttctgtac caaacaatt tatattttgt tatgacctaa gttgatattt aataaactct 240
tctgcacata tagattctat tattattaaa gttcata 277

<210> 32920
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32920

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tttgggnagg agcccggggc ggggtgtagga aggaaaacaa aacccccaga nccccccagg 120
gaagaaatag ggtggctgct attcatactt atgatccact gctatattcc ttaattccac 180
gatgttccaa gggaaatgct tgattgggcc aagcgtttcc acataatttt gtggatttgt 240
tccgggcttt tgtaccttca ttaagattct cgagtgatgt atatccttag agatctaata 300
gcagttattg tttactagac gacactttga ttccaaaatt ttagattatg gagtgcttaa 360
actttcggag gagagaatat tgaaggaaac accaccagaa tagttggtac atattaattg 420
tn 422

<210> 32921
<211> 280
<212> DNA
<213> Glycine max

<400> 32921

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 tatgctcata tttaactaca ttgtgggttat gcttaagatt ctgtgacatg aaactctgac 120
 ttcccttttaa catccatttg gtttgggttat atagataatt ttgcaccgtg taatttacca 180
 cctcttgga gacataggat atttgataat agagagggcc cctgtgactt ctgaaacgca 240
 cgttgctggg caagcagaag tgctgaatat ctttgaaatc 280

<210> 32922
 <211> 239
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32922

gcgaaagagt atctagcgaa tactaccac agggggaaaa gaaccttacn caaaaaaag 60
 ggggagggaa gcacccacc gcccgaaaac gaccacacc aaaagagggc aaggccagca 120
 caagcagggc caaacgacac acacaaaaaa cgcggaagcc aggcacacac gacggaaaac 180
 aacacaccaa aaaagcggac gcaaaaccaa caccggaaac gaccaacgg aacgcagag 239

<210> 32923
 <211> 539
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32923

nnnnccataa ggggaaggga tangccgna nntntntngn ngacnnntnt actnnnannn 60
 cnnngcngna gtacnnanna gngnnganga gnngcactag cgatgagaga anactctacg 120
 ctcnnttggg annnnnnnnn naannacgga aaggngcggg gagtgtttca agaggaaacg 180
 gccacccaa ccccccgacc acaaattnggc gcacaggaaa caggaaatcc acgcggggcgg 240
 gaccatcaa caccaagaca gcaatggcac atggaccatt gacattggag gaccaacca 300
 cncaaaagga catcggaacc gtggaatggg cagcatgaac tcacaacaac taccctttgg 360
 gggagattac caagaggcta atcactactg tgccacctgc tagacgcttg aaccacaaca 420
 aatacgccag ctttatgacg ttaaaaagcg ctcttgagg cacctatatt tatgacccta 480
 cttgtaaaat tatctctcgt ctgattcaac tcggttataa aaattattcg ttaatctat 539

[illegible]

aggaaaagctg	tggctgatta	ccngnnataa	ttatcgccgg	agacaattgg	aggnacctga	60
gagatgacct	atTTTTtann	nnaccgcccc	aaaagggggg	actcaacaaa	ctcccacaaa	120
aattaatggc	gttagaatgg	cctcaaaaat	agaacattca	atttcgagcg	tctccattat	180
tacgggactc	attacacatc	cgagtaacaa	agctattgtc	ttttgaatta	gcttagagct	240
ttcaacaatc	aatttccagc	gtctcgttat	ataacggggc	tcaatcagac	atccgagtaa	300
aaagtcattg	gcgactgaat	aggctcagag	cttcacacatt	caatttctag	cgtgacaata	360
tgtgacgggc	ctcaatcaga	catccgagta	aaaagctatt	gacgttagaa	ttgctcagag	420
cttacacatc	aaatgtcgac	gactcgatta	tgacaagaag			460

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<223>      unsure at all n locations
<400>      32925
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gggaaaacac	accagacaga	agacagacgc	cgcgcacgag	aagacgaccc	agccagaaaa	180
cgccacaaca	accgaaagga	aaaaaagaac	ccaannnccc	caaaggcgag	aaccgagcgg	240
accaccccc	cggaccacgg	aaagccaccc	gggccaggag	ccngacccga	acaaagcacc	300
cacagagaaa	caaacgccgg	aaagcggaca	accagagga	aaccaacaa	aaacgccgac	360
ccccgacacc	ccagacgccg	ccccgggagac	aaacgacgaa	aagcc		405

13713

<223> unsure at all n locations
<400> 32926

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acttctatat tggctttgcc taggtgatac atcaattgaa aattatagtc tttcataaac 120
tccatgtaac atatttgtct tatgtacaaa caaatacttc caactcatga gatcagtga 180
cacatcaacc ttgcttcag aaggataatg tcttcatatt ttcaaaacaa atatcatcac 240
aacaattcta gatcatgtgt aggttagtgt ctctcacaca tcttcaacta tcaagatgca 300
tatgctataa ccttcctatg ttacacacca atatgcaact canaccttga taagagacat 360
cat 363

<210> 32927
<211> 358
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32927

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tgttttcttt tcnchnaangt cctggagatt gtgggtgggtc agaaccctcg gactaagcgg 120
ggctattgcc aaccagcttg ccaatccacc acccggttaa cgacggagaa cctgaagtcc 180
taacagcgac tctgcaccac aataaagaaa cagacccaac acgtgctgtg tgggtggcact 240
ggaataggaa aagagatggg ctcggtatga taccaagtgg aatcatacag ctaaagtga 300
agagccaatg cttgaattat acccagggtg acatacgctg aacaatcaga ccacgggg 358

<210> 32928
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32928

ggaatanncc ggcgtcatct tatgcgnaan tatatacccc tcacaggcgg ggcacgaaga 60
caacttcctc aanngaaacn cnggccgggg aggggaagaga ncannggacc caccncca 120
ccaacgnnga ggcggaacca caacgagaac aagagagaga cnaccgcca cggaaaaaa 180
ccancaagan naggaaggaa gagggggccac caacagacgg gaaagaaggc cacaacgaag 240

accaaggcaa aaacaaccgg aagaaaaagc accccacaag ngacagacaa agaagaaacc 300
 gcccacagca agagacaaag caccacaaac ccacaacaga ccgacaaccg gccaaaagga 360
 aaccacc 367

<210> 32929
 <211> 371
 <212> DNA
 <213> Glycine max
 <400> 32929

tatcattttt tcttatacaa aaatgaagct gggaggccac ttgttaaaca agtggccaca 60
 aatatcttaa gaaggggggt tgaattaaca tattgcaaac tatttcccca attaaaattt 120
 tattttaatt ctaatgcaag ttacaagttc ccttaaaaat gaactcttaa ataatgattc 180
 aaataaaaca atctgaatat aaatgcacaa caataataaa taaaagattt taagggaaga 240
 gaaagtgaag actcagattt atactgggtc ggccacacca ttgtgcctat gtctagttcc 300
 taagcaaccc gcttgagagt ttcactatct tgtaaaatcc ctatacaagt tttgaacaca 360
 caaggacaat c 371

<210> 32930
 <211> 252
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32930

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 gaaaatatcc attttcaaca aaaatgaatt tccatagctt cagcattgta gtaaaactaga 120
 gcagtgaagg cgcactctgc angacagcag aaacaaaaca tgacccatt tctttgaaat 180
 gcaaaaagaa naaaaaatgc aacagttttt ggcacatgta acctttgagc tntgaccgga 240
 gaaatactta at 252

<210> 32931
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 32931

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ttgactgata tctaattang catgatattt catgtctatg cttttgattg agcgaaatcc 120
atgcttgggt gctaaatatt agaaaaattt gatgtacctc gtgtttgctt aactaaattg 180
agtgttgttg ccaattccta atacatgctc attaatgggtg attattgttt taccatttaa 240
aatttatgtc gttcatgtat atcttttctt tctccattgc tctactatat aaacacgtgt 300
gagtatacaa ctaatcacac cactcaaate tctctcattt tactctctcc tcttgctctc 360
tgaactt 367

<210> 32932
<211> 489
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32932

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ccggagaggt agtgcataatg ttctcttact gnactaancc atnngcggcc caggtttcat 120
ggctctggtga agatcctcat aagcatctaa gggagtccca tattggttgt tccaccatga 180
acccccctga tgtccaagaa gatcatcctc tttctaaagg cttttcctca ttctctagag 240
ggagtggcca aagattggct ctactacctt gctcccaggt ccattttcag ctgngatgac 300
cttaagaggg tgttcttga gaaattcttc cgtgcatcta gaaccactgg catcagaaaa 360
gacatttcat gcacatgca acttaatggg agaaagcttg tttgagttat gggaaagatt 420
caaaanattt gtgcaacctg acctcaccac catattcttg caactctct tcatattcta 480
tagggactn 489

<210> 32933
<211> 394
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32933

gggagaatgt gaatgtatgt atacatgatt ctgatgatgt caaagaagaa tcaaacaagg 60

ctgcttcaaa tgataagcat ttgcttcaag aataattcaa gagtgcttca acaagcacag 120
ccatgtttta agattcacta nagaccaagc cttgccttaa aacaaagtgc tttcaagaca 180
tgcaaggctc tggtaatcga ttaccaggaa gtgtaatcga ttaccagaag acagggttga 240
gaaatagctg ttgaaaaatg ttttgaattt gaattntcaa catgtaatat attaccatat 300
gtctgtaatc gattaccagc aacgaaactt tggaaattca nnattcaaag tcataaccct 360
tcaaattata actgtgtaat cgactacaca aaca 394

<210> 32934
<211> 311
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32934

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ggcaagcaca gtagcatgcg caggaacacc agtagcagcc agacgcaa at gcatttgtgc 120
cacctctacg acaaccacca tctctgtcga catgcggatg atagagctcc agatgcacgc 180
atatatgcaa catgtggccg accagcaggc ggccaaacat aaggtttagg tgcaactgaa 240
tgaaagctnt tacctgtaca cctgcatca gtagcgctag gaccccaatc cttacccatg 300
gcctactccc g 311

<210> 32935
<211> 283
<212> DNA
<213> Glycine max

<400> 32935

atctaaaaac ctgcgcaaag gacgggtcatt ctcttcttg gaaggtagca caggatatgg 60
tacttcaca acttcattca caactttttc acttctactc ttctttgcat tctcattttt 120
ttcatctttt tcaatcttct attttctttt tcttgggcat tcaatcattt tttcttgacc 180
attattagat tctctctttc ctgagttctc tcaccttget catcattttt cttgttatca 240
atacctctct tttcaatgcy gtaagccaca tgactaagaa aaa 283

<210> 32936

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tggagagcca	gggaaaagaa	gtcttggtga	gggaccttaa	ggacacaaga	ggctagaaat	180
caaactctct	agggttcac	ttggtatgga	tttgaaccta	acttcagaat	tgtcaaaggg	240
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tataggtacc	aaatgattaa	ctaccattct	tacattatta	aattgttttc	actatagaaa	360
tcaattgcta	agtgaaccg	tggagagcaa	ttctattgac	ccanatgttg	ttgcagtgct	420
acactcattt	tgtcagctga	aacactgata	ccattctcat	gtgatagaca	tacan	475

aaacctccgg	ggcagcaaac	ccaacatgag	cacaataata	tgacctttca	agcaatagat	60
acaatccagg	ttggaggaat	catccaaata	tgagatggac	aagtccctcca	caacaacaac	120
agcctgcccc	tctatttcag	aatgctgctg	gtccaagcaa	gtcatatggt	cctcctccaa	180
tgcagcaaca	gcagcaacag	tcacaacaaa	gacaacaagc	aactgagggt	cctcctcaac	240
cttccataga	agaattagta	aggcatatga	ccattcgaa	tatgcaattt	ca	292

aggttacgta tgcttgtagc tggaaataaa ataccgctg cccanagtga catgtaagaa 60
tccacgggtcc cttcttttta tttcccttat angagagtcg agtagagttc actggccgctc 120

acttaacaac gtcgtgactg ggaaaaaccct ggcggtaccc aacctaattc gcctgcaaga 180
cattccccctt ttaccaagct gcctaataac caaagggccc ccaccagatc gcctttccca 240
caagtgccac agcctgatgg cgaaatgcgc ctgatgccga ttttctgctt acgcatctgt 300
gcggtatttc acaccgcata tggcgcactc tcaagacaat ctgctctgat gccgcatagt 360
taagccaagc cccgacaccc gccaacaccc gctgacgcga acccntagag gacgcttgaa 420
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<210> 32939
<211> 347
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32939

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attatgatga tggatggctc aaattctcac aaacgttaac ttatcacttt caaattgagc 180
tttcaaaact ctcatgacat gtagaagaaa aacaaagatt tcaaatacaca aaatgtcaag 240
agacttttat tatcaaaaca attaccatt tcttgaacat atcctataat ttaaagaaaa 300
atatgcaaag ttgtacatgc aaacaaaaat gacctcaaat attaaac 347

<210> 32940
<211> 367
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32940

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tctctaggcc ngaaccagc gcgggggaag tcaaaaaaac ccactccga ccagacaggc 120
agtacgggag acgcggccat actacaaggc gcaaaacgag acgcatcggg caatggggca 180
aaacaaaaag ctcacccgtg gagatgagcg agtactgaga cagggcaccg cataactatc 240
cccgcgtgta agcgacaaca aaattcatgc aacagtccca tagaaaaatt ctcagcacag 300
tgagacgtga caatcctgtc aaacaggcca aacgacgact tacaactctc gtgacgacac 360

attaaag

367

<210> 32941
<211> 483
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32941

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gtgcacctga aggcgtgcaa gctcctataa aggctcccc aaaacgctnc cgcgaggctc 120
ctgtaggaag ctttcctcca aggctacttt gagaagctaa tatctaact accctggccc 180
ctctattacc taattaaatc tccttgaaag tagtgccaga taatataaca cgataactta 240
ttccaacttc anatataatt actaacatat atgtatatat atatatatca ggggtgttaca 300
ttgaccaaac tcgctagaga tgtcatcacc caccacaaat aacaccgaag tcgtgatcat 360
aagcatggag actcanatag agcatggctc ttctcactgc atcttttagga tacctatgct 420
agtcgaagac acatcgagag cgaagaggac gagtatcata aactagaccg tgataaact 480
tag 483

<210> 32942
<211> 107
<212> DNA
<213> Glycine max

<400> 32942

actgtgaaaa ggttttgatt gtagtatata tgtatcatta ccattgttgt atcgatccac 60
acagacattg aatcaatcat atctaccctc aatatactgt gtatcat 107

<210> 32943
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32943

cgtnnacacc acaggaana agggatgaatg accgttagac nacnatatat atnanccna 60
caacangga ggggaagaa aagcgggana ctttctttat taaggagannn gggccnccgg 120

aatactagt

429

<210> 32946
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32946

tgccctaata tacattgatg tttgtatnta tgggatgagt ttgtatgcca tttntgttt 60
aagaataggg tccactggta aactactttc caatgttgcc ttccagaaat ggcccagga 120
cctggctaaa aggtccagaa gacaaggcac cgaaggaact agttccgctc ccgagtatga 180
tagtcaccgc tttaggagtg ctgtacacca gcagcgcttc gaggccatca agggatggtc 240
gtttctccgg gagcgacgcg tccagctcat ggacgacgag tatactgatt tccaggagga 300
aatagggcgc cggcgggtggg caccactggg tactcctatg gccagntng atccagaaat 360
agtccttgag t 371

<210> 32947
<211> 310
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32947

agctgcngcn ataatancaa aattgcctaa atcatttcca gatatgcatg tgaattanga 60
agcatcaaca agaatcaagc caaggctatt gtgcaaggaa tcaatggggc aaaacacacc 120
aaaagattat gatgatggat ggctcaaatt ctacaaaagg taaacttatc actttcaa 180
tgagctttca aaactctcat gacatgtaga ggaaaaacaa ggatttcaaa tcacaaaatg 240
tcaagagaac tttattttca gaacaattac ccatttcttg aacatatacct ataatttaaa 300
gaanaatatg 310

<210> 32948
<211> 424
<212> DNA
<213> Glycine max

<223> unsure at all n locations

U.S. DEPARTMENT OF AGRICULTURE

FOREST SERVICE

NATIONAL FOREST SYSTEM

WATER RESOURCES DIVISION

WASHINGTON, D.C.

20250

gagtcttgtc attacaaggc cttttctccc ttgtatcaca tactcttctt ttcctttgct 360
tta 363

<210> 32954
<211> 209
<212> DNA
<213> Glycine max

<400> 32954

ctaattacta gcaccatata cttgcagcat ttccatttca ttgacacgag tgcagggctt 60
cagaccttca aaccaagtct tttatgtacg tgggactgac aatcctcttt atagatatatac 120
tcactaattg cacctctgtg tatgggtggc gacccccgat gtgatactgt acaatgtctt 180
gtgactgcta tgtatcccct gtattcatg 209

<210> 32955
<211> 334
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32955

atctttttgt tcggatggng gacctgnggt tggccaacc gcgtcaaaag tctaggcacc 60
ttgaaatggt cttgatggat gcaaaggat gttgtgattc agcttttgct ttgtaaaata 120
atgtgatacg gtttatgctc tgttttgctg tttgggtggt tgatccccta tatgagttgt 180
aatatatggg atctggttag tcatttcaga gactgggttt taggttctct ttctgggatt 240
ttacgttggc tnttcttggt ctataatgan tattgagatt tgattgttaa atacaattgt 300
ttttctttct tggccaatat gacatgttga atga 334

<210> 32956
<211> 365
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32956

tgctatcaat gtaaatccca aactcctttg catatggat ttactcataa tcagtttcgt 60
gaattgtctg ctagtatatt ggaaaagcta tagattaatt aaactaaacc aaacctgcaa 120

tacacattat anttttgttt gtaaagagaa taaatattga aatggacatg tntaaacaat 180
 tgcaatttat catacaacca tggctattca gtttccaatt gattctgaca aaaataagaa 240
 tatatagaag aaaataaaaag gtttgatgag aattctaaat tacccaaata cggaaccag 300
 tgactaggag taggatcaaa taactagtgg ataccctcta acaaatagata gcagacatgc 360
 ttaac 365

<210> 32957
 <211> 297
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32957

tccaaaggta cctaaagata aaaaagccaa aaggagactt gatggttcaa gacggtggga 60
 tcaacatcgt tctgttgac agtagtttca cttggtcagg caattttcta ctccagcagt 120
 tattcataga taactcaact agtttcccta cccatggaat gtangagagg gggatcatga 180
 acctaaagcc acaagataag ggacaatgga agatatagca tatgttggac aaaagggaag 240
 caaacagtta aaagtgtctg atcaaacaag tgccttaaat aatatcaact taatagt 297

<210> 32958
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32958

aaaaacttta ctagatcanc ttaatctaac tgactactan ttatttctat ggaacatgta 60
 gttttttccc ccaagattgg aggaaccgaa ggatcataca ccatatgtaa aaaaatgata 120
 ggtgaagata ctaagtgatg cgtgcatact acgaactgct gctggttctg catcactcct 180
 ctgttacacc cattgaaaa atgtaagtta acaatataat catttagata tangggaaat 240
 ttgcaaatct cttccatgac cataattcct gacttttgat caatttataa aagactnttg 300
 aataagtaat tacttattaa aaaatgggta tggctttgag gcctatnttc ttgggtattc 360
 attgcacagc anagcatata gagtgtttta taggagaact ttatgtgtgg aagaatttgc 420
 catgtt 426

<210> 32959
 <211> 331
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 32959

 gaaattctga tactggggac agatgtcgta cgggatgtca cgacttcacg cttcagaaca 60
 tgcagattat atgtgtctgt atgaacagat taaacaagta aataacacaa gagaattggt 120
 aaccagttc ggtgcaacct cacctacatc tgngggctac caagccacgg aggaaatcca 180
 ctaaaatagt gttagttaa agtctaacag cactgttta caaccttctc acctaaccac 240
 taccgtgca atctctacct aagagccact cttagatatg agaaccctgc tcaactccctc 300
 tcaaccacac tcccgtgtgt acaaataaat c 331

 <210> 32960
 <211> 116
 <212> DNA
 <213> Glycine max

 <400> 32960

 cgctatgatg gacccaaatg acaagagctc cagaattaat gcatacttta actaagccat 60
 cagcgctaata acaaccgcga atggcatcga gcctctaact taaggataact ttacta 116

 <210> 32961
 <211> 195
 <212> DNA
 <213> Glycine max

 <400> 32961

 aaaccgcgg accaactaat cctgggcaat ccctttgcac tgcgtataca aagccccccg 60
 acgcctccac agtgccacct gagcgaggcc cgagcgattc tctacgccgg cgatcaacga 120
 agggcctcta acatgttgag cgatataacc gccaccgcga cccgtgacaa cctgcggtga 180
 aagaaattta cgcct 195

 <210> 32962
 <211> 447
 <212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32962

aaaaaatga attttcattg actancnacc ggcataact ancacggac ccgggaatcc 60

tttaaagtgg acttgaaggt tgcaaaactnt ttcagaccgn aagccatgct aaccaccttg 120

gttccttgat acagggcata caaatccctt tcttcagttg ggtggccctt accactcgga 180

tcacgaccaa catattgaaa atttgccctg cctttatccg tgccttgcat gcaactgtact 240

tcattggacc gcattatgca tagtgatgga aaatggcact atggtagtct angatcaaaa 300

ctccatcttc tagcctaaga gaacaaagaa cttatagata aattcatgat tggcaataca 360

aatgatagat actgaattaa tgaagtcaac acttttgggt cattttgaca tatatgtgac 420

acatccatta tatacctagt ttttaaa 447

<210> 32963

<211> 496

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32963

nnnccttcgt taggggactg agtnatcana nctntatac tcaagcttgt gaagggaatg 60

atgatgggag aaaaagggat gggaatgttt ctcaatatcc tttagtggga aaaaaagcc 120

cataaaactc ccgtgggtgg aagaaacccc taccatggat tctataaagt aattaaggga 180

ggtttttcat ccaggggtcc ttaaagtcct tatttaatta tcaggtggat taagggttat 240

tagttagaat aaaatacctt tcctaaagta ttatgggatg gtaaggcat aacatgatgc 300

aattggtttt gcctaattac tactaagtta aaatggtttc atttatattt atcatgtcat 360

gtgtactaaa aatttaatat tgtaactctt tatgtaaaca tccatgatnt gtacaaanga 420

tatgatntac tttattagtt ttatatatga tgagttaaag acctagaaag acgaattcaa 480

attaatgaag aagnan 496

<210> 32964

<211> 325

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 32964

aggagtgacc tgatcagcga actacnaccg cttactgagg gggaagaggg gctctctgcn 60
nngcnaanaa agcggggggc cgaacccggc cgcgcaancc tcaccgacaa aagccgggag 120
ccctgcggaa cagaggcaga acctagtccg cccccaaaaa gccccccgaa gcagaagcgg 180
gccgcacaga caaaacagac gcgcgaagag agccacacga aggccaccga aaatgtggca 240
ggcgagacct gcgaagaaaa gcgaagaaga actacaagag gtcggaagaa acacgagagc 300
cggcgactaa aacggggggc caaca 325

<210> 32965
<211> 423
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32965

tgacacaatc aatattctgt gtcttatcaa gccactgttg tantttaaca nataaaaaga 60
tttgtggtgt gtttgctcac tgactaaatc ttaattgtat tacagacgaa tatgaaatct 120
aagcaagcac ttagtctttt ctatcaaagt gttttgaaag ctttttcgaa ctatacaaga 180
atatatagag agattttcac aaaacaaatt taaatgtag cgcacagggt cgtaacccat 240
gtctttaaaa cttttgttat ttataggcat tcatcttcaa gtatttggtg tctctaaaca 300
aatagttntc ttcacttgag cttgcatatg atgtttatgg tcgttggggc attgcattaa 360
atgcacgtac ttctttatgc cagaaaacca ctcttattca ctctcatgta gaataattca 420
gca 423

<210> 32966
<211> 373
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32966

ttcttggttc gacctactta cccgttgaag atcgaagaac gatgaaaaac gattgaacaa 60
cgtcgaaaaa cggtcgaaaa ccttcgcgaa attcctcacg gaaatgtttc ggaagcgcct 120
cggcttagat attctttacg gaaacaattt ttccaagcaa attcgaaaga gcgagaagtg 180

cctaaggggc tgaacccttt tgcacttcac ttctccctt atttatagca naatagggga 240
gatgcttgcc gccagctcg cccagggag catgggtgct tctccataa gcaacagcct 300
tctggaggaa tncctctggag ggcccaagtg ggctggntg ctatttgac ccccttttta 360
ctaatacacc ccc 373

<210> 32967
<211> 417
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 32967

ntgatcttcc accaccgcca ccaccatcat cttagatcta tatttttata ttaataagac 60
cttgaatttc aggctggat tttggctaaa ataataatgg aattggacca attaacaatt 120
tccctatttg catggaatgt ttgaacaaat ataaagtatg ttatttgact atatgggttt 180
tatagataat ctatttatga ttgttgcttc atgggttggt tgtagtttc tcaatgaatg 240
ttgtatggat gtgtagttat atttgattat ttcaaatttg ttacgcactt tggctctttg 300
ttgatgcaa aggaggagag aaatgggatt aaaatcaaga actcacatga gtaatcaatn 360
taattttaag atatgcacaa attcaaaaac aaagggggag aatctatgtg agtgatc 417

<210> 32968
<211> 326
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 32968

cactnctcta catgataaat gagtacaacc atttgattc ttgcaggggg gggtcctaaa 60
ttcaaagaac actttgcctt cttacaacta tctctattag agaatgatat gcaaattaac 120
aagtaatttt cttctattca ttagaagtga ccactccatt aattgtatct gcatgttata 180
gaatttgtaa ttcatttggt ttcttgaaat attattggta ggttataagc atcaattttg 240
gtgtagaac caaggtgttt ttttttaaaa aaattgtcta ttatcctctt ttagatgcat 300
cctcattttt taaattgagc ttatta 326

<210> 32969
 <211> 300
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32969

tcgattaccc tgtgtatttc tgatacggtg gannattcaa atccaatntg gtgaagagtc 60
 ancaactcnt tcataataat gcacttggtg agatcgatta catgaactat ggtagatcga 120
 ttaaccagtg ataactcttt gaataaaagg tcaaaagttg taactcttga catgattttc 180
 tcaaggttat aactcttcca atggttctct tgatcagaca tgaagagtct ataaaagtaa 240
 gaccttgact tgcattcaat agaacttttt acaactcttt gacaattttt tagaacttct 300

<210> 32970
 <211> 488
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32970

aaaaacaaag gacttttagn atgtcnntt atatatatta cctgcatgg ggctaaatcg 60
 gataatcaca gcgaagnntt agcctcggtg tcanacagna acacncacgn gggggggcct 120
 tcgatgctat acgctctatt tcgaangagt tcaaaagtgc acccctcgaa gcgttttatt 180
 tcttatttct tttgggagaa taattatagt cgtgtgcgtt actactacaa attcgctttc 240
 tattgactaa cggaaggcta agtctccagg gttggtctct cttcaggatc aaggacaact 300
 ctctatgacg atgtattatt actattaaat tctgatcaga ttttcccctg caccaattac 360
 tctgtatgtg tggctattaa ttcattgatg cctagtgtt gactaatgag ctcatgcct 420
 aaattacatt catgctcaat gatcgatcat gattaattgg cgtatgtgta tcttgaacac 480
 atatagan 488

<210> 32971
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32971

tgtttttaaat gggtttcaag cctggaggct tcaaatttat attgaaagga cctctatcta 120
 taatttttga ctttatgaac aaaagaaaag agttgtgtac atatacctgt cttttcactg 180
 cctgtgttat ttaggatagg ctaccctcct ttggcgggtg agctttcaaa accctaaacc 240
 tcagttggct tctcaattgg acatgactca acggggatag ggaagcactg actcacggag 300
 aaggctgagc cactagagca cacgtcagca tcgagcaact gtaatcgata ctacagaggaa 360
 cacgtgtaac tggaactcgg a 381

<210> 32977
 <211> 384
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 32977

accttctgag gttgccctat tgtgtgctgt tttttttttt agacaaattc ccttagcaat 60
 ccncaaatt aaggacttat cataactcga aacccttatg ctttcttaga accctanaac 120
 aacgtcaagg atatcaaaat taagctcagg gggtttattca aacaaatcat tattactttt 180
 ggctcaacag ggggtgcaagg gataaattca tcacagggtta gctttttggc tgagtggcta 240
 aaataaaaag aacatggcct tgatcatatc caccttatgt aaataatcta acagtctaag 300
 aatgatgcaa aattaataat ntataaacag acgttctctc ataattaagt tcacacagct 360
 caccgggaca agataaagtt atcg 384

<210> 32978
 <211> 108
 <212> DNA
 <213> Glycine max
 <400> 32978

atgtctaagc gagaccttac aactagggac agctagcagc caaccttaac actaccaact 60
 ctcaagaaaa ccactcatat tatccatcta acatcagaat tacaatac 108

<210> 32979
 <211> 143
 <212> DNA
 <213> Glycine max
 <400> 32979

ctataaaatg cattaaatat gataaaatgg gacttgtact cacatataat attagtttac 60
 aaagggtactc ttcaggaggt ttttgaaaat atattataca tttaatcatt aggggtcttac 120
 tatgtgctcc agtatcttta ttt 143

<210> 32980
 <211> 469
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32980

agaaatacct tttnccttag tangcanncc naannanana ttacgcctgg cgccactaaa 60
 anagaaggag cactggagcg gagaatttct tttatggtn gccaancnggc aaatggatgg 120
 tgaaggaatg gcattgacca tatcaccggg agagtgtgaa ccttaaattt tgattgacac 180
 aactatcatt taagacctgg atctttggca tggaatcttc tgaaagagt gaactgaatt 240
 gtatgaaaat gaagatgatg aaggctatgt ttgattgtga tagcacttac caaaagctga 300
 cctgtcttga ataataatcc ctgacccag tttgagctga atgaattatt gatgattgaa 360
 cctgacctat cagtgtatct ctactacctg attangtgn gagagctcat caaggagcgt 420
 ggtcaagcaa ttgtccaatt ggggagaata tcaggaaatt attcaaag 469

<210> 32981
 <211> 327
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32981

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 aaatatgatg acttcaagat tcaaagaatg agttcaggat taaatgaaga gtacttcaag 120
 gttcanaagg aaatttgatt tcaagaatca aggagatttg atttcaagaa tcaagaatca 180
 agattcaaga ttcaagtccc aagaatcaag atcaagattc aagacttctc aatcaagata 240
 agtattaaat nttgttttca aaactgagta gcacattaat tgttctcaa aaccctttac 300
 caaagagttg tactctctgg tatcgat 327

<400> 32984

ataaaactca gctagccaat ttcattgcat cctattatat tatgatcttt ncgaggtttt 60

ctggtaactg ggtaggttac ttcttcaagt aaggatatta cagtttgaag taggtgtaga 120

tatgttttct tctactcctc tctttttatc tttttttatg tgtgcgtgcg tgagtgtgtg 180

gcatgagatc ctctcatatg ttgtcactta tcattataga gaacggctgc tctagaaaga 240

tcaattaggg agaaagttgg atggcagaaa ttcataaaaa gaggagtgcac cactaagg 300

aagctacagt accaggtttt tcttttagcc gaagtttgta attgccttgc aacattgtat 360

tatgagactt gat 373

<210> 32985

<211> 249

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32985

ctttttggcc acattttaag gagtccatta ttcacttaga atcaaaattt cagccaacaa 60

ttcattcacc agaactcaaa ttcacaatag acacaatcat aaggaaacct aaacgttcaa 120

gaaaaggatc acaatcaaag actctccaag aattctgcat gaacatgtta aggactaatt 180

aacatgcaaa gatttgactc anataaaaata ataggctaaa agaatttcat acactcatga 240

acaaatgag 249

<210> 32986

<211> 363

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 32986

actatgtctc atttttcctt acgaacgttc tcttgacaaa gacattctat taactaagaa 60

aatgcaccc atacataatc aaggcagctt cattacctag attatttaca cgtacttcca 120

aggtgtatct gttacttaca tcacacccat ctcccttggt aaattttacat acatgcatac 180

tcaaagcatt ttgggggtacc aaaaattgca catgtgcaca tcttggtatt tctaatacct 240

atacatagc aaacttcatg atgaatcttg actatcttca canaaagggtg ctacatttca 300

tgctcctttn tcaagttttg ctacttaaag ccgcatgcga attcagcata tttcctttgc 360
tga 363

<210> 32987
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32987

gctttcnagt ttctggtntc tgaacctgaa aacttgtgct ttcattcttc atctcttctc 60
cctttgccaa aaataattcg ccaaggacta accgcctgaa ttctttttgt gtctctcttc 120
tcccttttcc aaaagaacan aggactaacg gcttgaattc ttttgtgtct cccttctccc 180
ttgtcaaaga attcaaaacg acacagtctg agaattcttt tgattcttcc ctttcccaaa 240
ttcaaaagtg ttcaaaggac taaccgcctg agaattatct tgtatcccca ttcacaaagt 300
atcaaagggt taacagcctg agatctttgt cttaacacat tggaggctac atcctttgtg 360
gtacaagtag agggtagatc tactngtggt tgactgacaa caagacaggg tacatctctt 420
gaggatcatt c 431

<210> 32988
<211> 344
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32988

cttttgagcc ttgtttccct ttccttggtt tgaagctcac tacaagcctt aagtgaaaaa 60
ccatgatatc accatattct taaggatatt tggagctctg gaattgtttt gcgaataagt 120
gtggagggtt ttgtttcatt ggataacatg tattgttggt catgcttcat gatatatntt 180
gagccatact tgatgcacat tgcattattg ttaaatgttg ggcgtgctga atatgatgct 240
gtttctcana ggctacaaaa aaaatcgaaa aaaaaacaaa agcagtaagt tgagtgaata 300
gatcttaatg acacaagatg atagactctg gttcactctt atgt 344

<210> 32989
<211> 286
<212> DNA

<213> Glycine max
 <223> unsure at all n locations
 <400> 32989

cgtaacgttt ccgtaagtaa ttacacgaag attctcgaca gttcttcaag atccatcggt 60
 tgttcttcgt tntcttcagt cttcaacggg taagtacctc aaaccaagct tttcaattca 120
 ttatatgtac ccgtggtggt ccacattgtg tttcatgtat tntcattttc gttttcattt 180
 actttntata cccctttttg acgtgcttaa gccatttatt taagtcattt ctcacctaata 240
 ctaaaaataa aataaatttc caccgatcgt ttgaattgat aatccg 286

<210> 32990
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32990

ttttttgtta ggatgcttca atggaggaaa agaaagaggg agagaaagat agagggggga 60
 gcacgaaatt gaaggaagaa aaaggagag aagttgaact ctgagttgtg tctcacaaga 120
 ctatcattca tcanagttac aacaagtgtt tcacatgctt ttatttatag actaggtagc 180
 ttccttgaga agctttcttg agaaaacttc cttgagaagc ttctctgaga aaacttcctt 240
 gagaagctag agcttatcta cacacacccc tctcataact aagcccacct tcttgagaaa 300
 cttccttaag aagattccta aagaagttag agcttagcta cacatacctc tcctatagct 360
 aagctcacct ccttgagatg a 381

<210> 32991
 <211> 405
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32991

ctgttngatg tgtggaggcc ttgttagtat ctcatgttaa atagggacac tatgcacaat 60
 gttgttaata atcccatcta catcttttagt tcctattcct aacatatacg tctntatacg 120
 cacttccatg agatgttatn gctctanagg ttatcttcaa gaggtacata atgtttattt 180
 ctaaaatcat tgtcgaaaag gaatgtatga aacgttnttg ttccaacata ngttaatatg 240

gcttagcgta tggtttcggt ctcttctagt tcccggttg gtggtcgttc ttcgtctttt 300
tattcttgat ctttaagttt gatcttttaa ttattgccat ctgttcata ttncggttat 360
gtnggtttta cttttgtgat ntacataaat cttgctggta tgtgt 405

<210> 32992
<211> 75
<212> DNA
<213> Glycine max

<400> 32992
tcatgatgac gattcaagct gatgcaagca gtcttgatgt ttacgtagat gatgacacac 60
tgctctaaga gtgat 75

<210> 32993
<211> 113
<212> DNA
<213> Glycine max

<400> 32993
ttgttggttt cttgacaata ccaaacaaaa ctgggaatga ttgagagtct tcatattgtt 60
ccggtaaggc acaccgtcct ctactacttc aactactgtt agatgccact tgt 113

<210> 32994
<211> 280
<212> DNA
<213> Glycine max

<400> 32994
accagcggga cattactctg agggcataaa tggcatataa cctcctccca tgaatgcaga 60
catcaatgta aattgagagc aagcttatgc gcatatcttc ttacaaacgt tctcctgcac 120
aagacattct attaaccgaa aaaatgcacc catatacaat caaggcagct gcgtcaccta 180
gaatatatac acgtacttcc aaggtgtatg tggtacttac atcacacaca tgctcctggc 240
taaattcaca tacatgcata ctctaagcat tttgggtacc 280

<210> 32995
<211> 485
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32995

atctactggn ttgattgttc atcgaacctg ataaaagcac ggggcaactg ctggagcgta 60
taaaggggac accaaaatgc tctttttatt agccgcaacc gggggggggg gaggagcttc 120
ggcacactct cntcaccacc ctaacgaaat tgaccatgta gtgcccacac agactcttgc 180
acacccacat ctatccggac tgggacaaat gaaaagctcc cactggcgcg gaaatcaaac 240
aaacgcgaac gtaaggagca tttgagcccg aaaagcactc tatgttgaag aataacgcaa 300
attagaagcg caacggcggc atcacacaga ccgggttgat tcgtcataaa gtgaggggaa 360
acaaccaaca atctgtgcga ataacagtgg gaatggtaaa gtacaggata tgatgccttt 420
ccaacctcct ggagaaccgg cgccagagt tcgccgcgca gatacacaga gacgaccgca 480
tcgcg 485

<210> 32996
<211> 252
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32996

agcttgcana atttatcact ctatatngca aacaggttca ccacgagaac cttgagccta 60
taanttttgc aagatagaac aaccctaata acccatctac aaactcctcc accagcaaaa 120
cgattccaca ttntccattt cccctttttt atcacgacat caaagaaaat ctaagcgaag 180
aagagaaaca agaaaggcca caaaacaaac ttataagtcg aagcgagacc ttggtataac 240
agagctattc at 252

<210> 32997
<211> 318
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 32997

gggnncgaga cttagactat gcaaccgccc naancgagaa gatccnctt ttttttttag 60
acaggaggtg gtctaatacac ctggaagcgc agagtgtgtt ttcctagctc tatctcttcc 120

ttatcctggtt acgatttgag attcgatgct ccaaaccccc aagtagctat attctcaagc 180
 ccgttaggac ctacgcttgc caaagattat aaacatccgg cctcaggacc agatccccaa 240
 ctaactctgc ctctctcacg ggcactatgg cctatagtgg agatctgcaa tttgcctttg 300
 aaagctgaga tagacagc 318

<210> 32998
 <211> 389
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32998

ccagagagct agagacntct aataaaccca ccngggaggg gaaaacggga tttgttattg 60
 agtncgacga gaagggttta ttaaaagttc tctctacaga gatatatcta gagcacacac 120
 aatacaccat acaaggcact tagagtagcg tgaaagtata catctcatac ctcttcaact 180
 tccttagaga ttgtcccaat gtggtatgta ttgtgctccc tattatatac taggctccca 240
 taagaccttt ggctcaaaac gttatccata ttctctacat ttttaaccgg ttattataaa 300
 acatcttatg gcttgatatg gtcacattgg tcaggcttga aatctatctt tatagcggag 360
 atgtattctc agaaactaag accttttgc 389

<210> 32999
 <211> 227
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 32999

atagtcaccc tcgatacaag accgagatga ctatagagta gtattccctc atatttgatc 60
 tccccatata ctacaactta gtatatgtgt tattatcatt tcgaaatggt gtgacatgtg 120
 tttcaataaa tccaacgaat aaaaacacaa taaatggtaa aacaaggatt ctttgataaa 180
 ttatnttcac ctcacacgta gatttataac atgttcttag ttaagta 227

<210> 33000
 <211> 408
 <212> DNA
 <213> Glycine max

<210>	33001
<211>	498
<212>	DNA
<213>	Glycine max

gataaagaat	cgnnnntgnnt	gtagcntcgg	ancntgggta	ttacgcggag	gaactgatcg	60
nggtacatag	aacacaattg	ncttataana	aacggacccg	gggaggggtt	aggttggggc	120
ccttgtgaac	ccacacaaac	attggccttt	cattgcgcaa	cctggaacca	atggaccacc	180
cggagcttaa	ggctgcaaga	attacaaaa	aacggcccga	ccctagcggg	gaaatccacc	240
ccagcncaag	cattatgacc	cttgcagcca	cagatagcac	cttgagtgga	ggatcaacct	300
aacctcagaa	tgccancct	tcacaacaac	caacgcaggc	tgctccttct	tacaaaaggc	360
tgtggccgag	cgaacataca	ttcttaccaa	tccacaacag	aacaaccag	aacaggcaca	420
gtgaggcctc	cacaccttcc	tcgagacntt	gagagcaatg	atatgcgaac	atcagttcac	480
aggaacagag	cttatcag					498

<210>	33002
<211>	559
<212>	DNA
<213>	Glycine max

nnqqqqqgcgc gccgatttta tgatacctaa gcattgcata nccgttanan tannnangct 60

ncnctttcan canagagaag agaaagatga aggatcgaag attttcattt agtgnggatg 120
tctcctccac ctctagaacc tcacaatcac tcataacctc atctcaagct cttaggacga 180
cttccctctt cgagcttctg tctctgaang gtcttcgtac agcaaaaatc tctcanactc 240
tctagaactt ggacctttct ctctctagaa atctctagac atgtagaagc ttcaaaanag 300
gccaaacctc ccatccanna tctgatttca cgcttaaata ngtggttctg tttgtgcttg 360
cgcgcttatg cgcactctga actgcttagc gcgcattact gaatntcngc ttagcatgcg 420
tcttctcgct cagcggatgg actcangtgg tgcgctcagc nggatgaacc ctcgctcagc 480
gaacatgcac atctcctcct tcttncagct ctctcttgcg ctcaccagaa gtgtgcgcta 540
gtggatgctc gctanctag 559

<210> 33003
<211> 368
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 33003

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gtcccttaag aacaaagttt aaccaagttt tcaagttata cttctattgt atctattaag 120
cacataaaat gaatgaccaa gaaagtcaaa ttacttgttt ttgcatctgc aaccatcgcg 180
gtccataata atcatattgt tgtccatagc ccgtatgtgc tcaaggcaat tacagaacac 240
aacattgata attcaaccaa ctttctgta caaaagcaat ttgaattggt acataagcaa 300
ggcaatatct aaacctacct ctctgggcac aatattaaca aaatcaattc accactataa 360
tattcatc 368

<210> 33004
<211> 367
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 33004

tagcttgaga tgcctgacct ttagcaaaca gtatgtattc ttctgcgaac agtaaagag 60
aaacacgagg gccatttgag gtcaacttaa ctgggttcca cctcacctcc catcagacac 120

tacctaagag atcatatcac caagcctctc catacatgat acaaataaat atgggaacaa 180
 tgggtctccc tgacgaagcc ctctcacagg aataaaaacta ttttttggtc tacctccatt 240
 ccacatgata gaaatagaag tagatgacag agcatgtata atcacagaca taatggtatt 300
 atgaaaataa caaaaatnaa aaagagtttc ccaccaacaa aatcctagtt cacacgatca 360
 tatgcct 367

<210> 33005
 <211> 496
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33005

taacacaaca caacagatcg ggaagtagcc taaccaaact ttgatgcaat ggcttttnc 60
 nonnnngnncg ggaggggtgtg gtgttgataa catcccaccc cgctctccaa acacaaaacta 120
 tgataactgt tttgtagaca tccggcctat ttaccagtgc tccacacagc ggactgatg 180
 gacgccagta ggctcgagtt acttcttcta tgcttacacc cctgntataa gaacatacta 240
 actacgattt ccncaccac tgccggatgt cctcgaaggc aatgacgatt acaaactctg 300
 tgtcttctca cctacatcga tgtactactaa acccgtgatg tggacgctat tactccaaaa 360
 tcataccttc gccgattcta tgtgaataca gctctagcga ctttctagtc tcatcaattc 420
 ggctaggggc agcgaaagac tcacttacca tgggtgggac taatacatct ttagaccccg 480
 cgctagctac ctgtcg 496

<210> 33006
 <211> 424
 <212> DNA
 <213> Glycine max

<400> 33006

ataataatag tgggtgtagc ggtattttat cacaccttat ctcatccaga gtttatactg 60
 tctagactat atcatattca aatcttattg cgtccagatc gtatgtcgtc acgtcttattc 120
 ttatcttgtc cagacgttat gtgatctggc tcataagtct ggacttaaaa tagatttgta 180
 agtattgggg ctgaagacct atataacagc accaatgtga taggctaggg aggttttgtc 240

cggagaggag aaggattgct gggttgtagg aattcagcgt atagtactgt ccatgcacac 300
 tgctcatgga gagggaaaatc gtcgttgcca acagcttaat ccatactgtc gaaatgatgt 360
 cggtgatatg cgtaggggtac ttcgcgcgta acgacctgaa tcataagata tggggtcgct 420
 atcc 424

<210> 33007
 <211> 527
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33007

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 cacgatntat gngaagcaca gtgactggag catattttgt tatgaatcat ccaacataat 120
 agggagcgaa ttcatagtga cccgttagta caaaacgcga gatgactatc tagaaatatt 180
 cactcatatt tgaggtcgac atctccaaca actctagata gtgggttatga gaattctcag 240
 gagaatggag cttagagcca tgatgaactt ccaacagaat gcgaagcctc aacagatcat 300
 gcgctcacca ctatattggt gatatctcaa aaggagcaac aactacatag tctcttacag 360
 attatgcacc aacacgcttt cttgccatga tggagcctaa atttatagaa cccttgaggat 420
 gaaactgaac cttgccctcc ataaaacggg acaagtcgaa gaggcaacgt ggagcccgat 480
 aaaaccttta taatccgtgc tcgaacaaag gggttttaaa ataaten 527

<210> 33008
 <211> 169
 <212> DNA
 <213> Glycine max
 <400> 33008

gtcatagcat gaaccacgg gcaaagcatt tatgcccggt tggcccctac aagatttacg 60
 gtagccacat cgtaaagctc tacaccacaa agaatcaaag ctctttggag tcccagatct 120
 accccgacaa ctcttaacgc ccaccagact tcaccccaaa ttctacccc 169

<210> 33009
 <211> 497
 <212> DNA
 <213> Glycine max

[illegible]

<210>	33010
<211>	323
<212>	DNA
<213>	Glycine max

ttaaaagtct	tattaattag	aaaggtggag	ctttaggctt	taaaaaagcc	tattacgctt	60
gataggttgg	tatgtttata	taataggctt	catgaacgtc	aagaaaataa	tgtatataat	120
gatacttgaa	tttcatnttt	gtctactaaa	aagatcataa	atggggtcttt	ntgaacatca	180
ngaaaataag	ttacccttat	taagagggtt	ttcttttgct	ataacatcca	agaatntaat	240
gcaaattgag	gataaaagat	agtgacgaaa	caagtcatga	gacatanaag	catcaagatc	300
tcagtcctag	ccggatgatg	atg				323

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<223>      unsure at all n locations
<400>      33011
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13747

gcccaccccc cgcggggttta aacaaaaccc ccccccccca cnnncncacc ccaccaaaca 120
 caaaaacaac acacacacaa gaacaccacg aaaagggcgat ttaacggggg atggtgtaat 180
 aaaagaggag ggggtgagga acatgtggag ctggggtaat gtgcgaggag atattacaag 240
 tgcgggtatg accagatact aagatttaaa atatatatcg ggggtttagg tggaccggta 300
 aacggataag tggagattca agaatggggg gg 332

<210> 33012
 <211> 382
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33012

agcttctccc cctattttct atatataggg ggagaagtga agtagagaag gggttcagcc 60
 ccttaggcac ttctctctct ttcgaatttg cttagaaaaa ttgtttccgt gaagaanatc 120
 caagtcgagg cgcttccgta acgtttccgt aacgtttccg tgagtgattt cgtgaagggtt 180
 ttcgaccgtt cttcgacgtt cttcattcgt tcttcacgtt tcttcagtct tcaacgggta 240
 agtacctcaa accaagcttt ttaattcatt ctatgtaccc gtgggtgggtcc acattctgggt 300
 tcatgggtatt tttattctcg tntcatttac tttttataacc cccttttgac gtgcttaagc 360
 catttatnta agtcatttct cg 382

<210> 33013
 <211> 556
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33013

cgcccccgca ggacggaggg ccttgnagna gnaccctng ctinnactata gannacnncg 60
 accgnnngac gcgnataagt ggactgtgtg gcaagtcanc aaataatgng ttatactcgc 120
 gaatgggacg gacaacatgg aagggtggat gattcgtcaa caagaagcaa atcacaccaa 180
 aggcctcatt ttcgcttcaa gtactaaata ctaggattag cgttcacaca accagagacc 240
 ttgactccaa aactctctta aagatcaacc ctctgcctca caatgaaatg tgctctagtc 300
 attcacagca cgtgtatgcg atcaccaata catgctatcg attacacatg gtttgaaagt 360

gtgcaactcg atacacatca tatgtactcg actacaagag actctgaaac gtggtattca 420
 attctaataga atgtcacact gtcaagaaaa caactgtgta tgcatacact attctgtatc 480
 gataccaaga gattttatga tatcgacccg cacatcttca ttaattggat gcctcaagct 540
 ataaagtact ggccan 556

<210> 33014
 <211> 389
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33014

cacatgtgng actacgtggc ggctcgtgca tgggtgcacaa caagtattcc acatccacaa 60
 tgcgcgcata atcccaccat ccgctgttgc ccacctccat ctgagctcac gtactcccac 120
 gtagcccata ttcttatttc tctcaacacc ggggtcccat caatcctccc aagtttctcc 180
 aacatcaaag taatacaaca ttcacacagc acatgctatc gcagccaagc ataacagggc 240
 aaaggcagaa tactctgccc aataacacca accaaaatca cagcttttct cacttaaaga 300
 cccagtaac aatttcttcg atccaattcg ttaaccgttg gatcgactcc aaaattgtat 360
 tggaagtcta taatgtatac gcctacatt 389

<210> 33015
 <211> 440
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33015

cccgttgatt cgtagtaact gaacatccaa cngactaaaa ctgagttgat tatggagagt 60
 tgatttcttt tgtttcacag agcggcgcgt gtacactaac tatcaaactc ttgccttcgc 120
 aaggaattgg ccccaacgag cttgccttca aagagttcaa gaatggacaa gtaaccact 180
 gaactagtcc gctcccgatt atgaccgtac cgctcacgag cgctgacacc accactcttc 240
 aagcctcctg gatggacttt ctctgggacg acactccgc ttaggacgag agttactgtt 300
 tccagaggaa taggcgccga cggggcctac tgggtcttct ggcattttat ccatttaggc 360
 ttatttatcc atgttgccat caagaggcgc cgcatgaatc cggaaggcgc tgctccttat 420

cctccatccc actctgatcc

440

<210> 33016
<211> 371
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33016

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naggctagtt catatTTTTct atggtgaagt gtcctcacat aatgggacga gttgtgatgc 120
tacttctggn ggaaaccttc actactggaa aaaggggaatt ctatgtcggg tctacaacac 180
tttntaagac ggttttgaac tgtctttggt accaacgtcg tagaaagtca aaactttcta 240
agacgaatTT ctgaaaaaaaa taactgtctt agaatgtatt ttttttaaaa aaaatanaat 300
aaaaattgag aattctaaga tgattatctg gaaaaccatc ttagaatgtc tacaatctaa 360
gaaatgtttc t 371

<210> 33017
<211> 461
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33017

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aaaatttttt acccataagc ttaccacgog cgtgataaat aaaattcaat tttaggtcca 120
atcctttacc acaaccaccg attaaaaaaaa cnttgattct tggagaatga cccaaacggg 180
attggtgcgt actacattat aaaacaactt tgggggtcac gagttggtgg atctgacatt 240
ccacaccaaa ttttcctcca aatagctgat acgtaatctt ctcttttgaa catgttggtg 300
tgtgtgttga cactctgaac taagcaccca acaccataca tatacagaag agtgaagaga 360
aatcagatat tttgtagaga gaaaaaaata aataacaggg gggttttctt ctttcttctt 420
ggtcctttca gattggtccc acaacacttt caggaagcaa n 461

<210> 33018
<211> 400
<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33018

agctnctact tatgtggctt gttggtgctt cttcaccttc ttgtctgcaa cgcgaaatatt 60

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ctaaaccata cttcccacga tatccttgag tatttatcag gctagtaatg ccgccgttgt 180

tgtttcttaa acccatcccg ggttcaaaac cgttcccaa cataactcgg gccatcatta 240

ccactgcac ggacagacaa agttgcccac agaggaggag cacggaggag atgctgacca 300

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<210> 33019

<211> 488

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33019

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ctaactaga atantattat cttancgctc ttaaccnang gatttagaag agcttatggg 120

ctgagtgcaa cttgaaatcg tgcaaccac aagtcacccc taccgcccac catggcatcc 180

cccttttggg ctcagacag gctgatgctt aggtggccat tggacccttt ataccacttg 240

aactaaacct actaaagccc tttagttgat aacgcacaac atatatttgt cactcaacgt 300

acaatgattg agccatatat aactactcac actctaaaat gaacatagtg tgctattaat 360

cctctcattt ggcatatata actacaactt gactgtctct tgaactgggc tcgtttctat 420

agatgacaca cttgtgagag ctnccttgctt tcttgtctag cctgtgaaga ctacgcctta 480

gtgatctt 488

<210> 33020

<211> 274

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33020

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 ttagccccac taatcctaca agagagaata tagttctttt tttaaaaaaa cacacaatta 120
 ttttcttcct tggaagcctc tttggatctg tgcacacctc agttgcttat cagttaccaa 180
 atgagcaatg acaataactc attgttgcaa aaattgccaa aacctctatc ctctaagtga 240
 attacaagac gcatgagtca aacttcgcta ctcg 274

<210> 33021
 <211> 334
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33021

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 tgcaactctt gatagacgtc tgatagggga gaatgaacaa caagctatta agtggctact 120
 tccttcaaga tcattgcctt cttttattcc ttttcaaaat gtntctgttg aaccaaactt 180
 gaacgtctga ttctacccta gtttcagagg acatcacatc ttggaatgga aaacctgcaa 240
 caaagtctga agaagacaat ggatgttggg actcaagttc ttgatcctaa gatgaanaag 300
 ctcanactaa agaagctaaa tctacttaat ctct 334

<210> 33022
 <211> 361
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33022

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 tgngataaag gtagtggttc catgttttca aagcccgtac taatgcatac aactccta 120
 cataagttga atagttaagg gtaggaccac ttagcttttc actaaaataa gcaattggat 180
 ggccttcttg catcaacaca gcccgaatcc caacatttga agcatcacac tcaatttcaa 240
 aagattattg aaagtttggc aacgcgagta tggnggcatt agttagctnt tgcttaagaa 300
 cattgaaagc ttcttcttgc ttctcttccc atttgaaacc aacatttttc ttgagcactt 360
 c 361


Debt-Free

cgcgcgcccta	aagaagggaa	ttgnngcang	natcccctgc	gaanntcaca	tnnacnnaac	60
nnnganctac	ttattgcttt	tgcacatggc	cagaanataa	gtctcatnca	tttatgacgn	120
aactcctggg	gtgtactcat	ctatacaagc	aagtctgcgt	atgcatcaag	tccttgactn	180
tcaagacact	gcctgagctt	caacaatgct	cggctctcca	actgtcggac	nactctcctt	240
tgggtcaaacc	aaacaccttg	ccaatgtctg	acaacgtttt	ctcctcgcca	tcctcaatac	300
canatcttag	ccttgatatg	ccccccttct	ttgggcttaa	gatatttaga	gggtgtgcac	360
atgcatcctc	attagctgtg	gtgagaccag	tcacatctgg	gatctcaant	tgctgagtct	420
gcagtaatct	cctgcaattg	gataacaatg	tgatcaatct	gcgacattca	taatanntat	480
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<223>      unsure at all n locations
<400>      33024
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accaacattc	cttggattca	ttgtaagaag	cgggatttgc	ttcttgggtg	atcactggac	180
acanaagacc	aacgtctttt	gggttcattg	caagaagtgg	gtacaacttc	ttggttggtta	240
tcactagaca	caagagacca	acgttccttt	gggttcattg	caagaa		286

13753


 ҚАЗАҚСТАН РЕСПУБЛИКАСЫНЫҢ
 БІЛІМ ЖӘНЕ ҒЫЛЫМ МИНИСТРЛІГІ
 АЛМАТЫ АҚПАРАТТЫҚ ТЕХНОЛОГИЯЛАР
 АКАДЕМИЯСЫ
 АКАДЕМИК А.А. АБДІКАДЫРОВТЫҢ
 АТЫНДАҒЫ АҚПАРАТТЫҚ ТЕХНОЛОГИЯ
 АКАДЕМИЯСЫ
 АКАДЕМИК А.А. АБДІКАДЫРОВТЫҢ
 АТЫНДАҒЫ АҚПАРАТТЫҚ ТЕХНОЛОГИЯ
 АКАДЕМИЯСЫ

<210>	33026
<211>	329
<212>	DNA
<213>	Glycine max

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tgaatgaata	gcttgctttg	taaaatcaca	gataaaatan	agggtaaatt	tctggattgg	240
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<210>	33027
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<212>	DNA
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tcagncagta	ccaagaagaa	ctaaatctag	ccacgaccca	tgagcataaa	gtggcgaatg	180
agtatgcccg	agtatacgtg	gaaaaagagg	ctagaggaag	ggtgatcgac	tcattacatc	240

gagaggcgac aatatggatg gaccgattng ctcttacttt gaacgggagt caagaa 296

<210> 33028
<211> 323
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33028

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tcggactctc agccacttat gatagctgcc gatgatccca ttactgcttc ccctaagctc 120
tctgtccttt cttcacaccg catcacatgc cttgtgaact ccttagagta ccctcgcatt 180
ggggttactg aaaccccggtg cgatgaaagg cgtgatgctt ttgtctgatg gcactcctct 240
catggggtag ccaagctgtc ttatggcgag gacgggatta taattaatac aaccncttgt 300
tccatcaagg gaacatttgg aca 323

<210> 33029
<211> 357
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33029

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tactaaacga actgaaaaat taatcataat cataagcaac tatectaatt acatgcaaga 180
gatacaaaat gacaaagaga anaggggaaag actagttggg ttgcctccca ataagcgctc 240
ttttaatgtc attagcttga cgcatcatcc tggtatcctg tgtccaataa ggttccaact 300
tccagaacct tcttctntag tctttttttc ttcacacat tgaccttcaa acaaaca 357

<210> 33030
<211> 468
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33030

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annacgctg gngngtaaac tgggctgaag ttcatttttag ctttaactgc agaactgcag 120
 ggtagtagga attgactgta tgcactgcaa tatgtctgta tttggtacta ataaactgag 180
 atctaacagg tgtatattaa acagaaaacc ttctcgaggt atgcatcaat tgtataacat 240
 ttgacagaat agctttctctc gatgacactt aaaaacctat tttaatatat acatgacctc 300
 tgagtctatt gcataagtac ttctgtcatt cttagagcac taggtccaca cgaatgcgat 360
 aagataatgt cgtcgaaaga gatatttgta agaatcaagg atagtttact ttgtataaag 420
 gcagggttaga ttaacatcaa atatggcctt ctagaaaatt aactggga 468

<210> 33031
 <211> 206
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33031

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 tgctgcttat ctactatcct atcatgagtc tattcacatt cttttacatg tctgttcaag 120
 ttgttggttc catatttatt acttttgcatt ttataacctt ggtcacaatg cttatatata 180
 gcaacatccc cttccctatt aaaatg 206

<210> 33032
 <211> 287
 <212> DNA
 <213> Glycine max
 <400> 33032

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 cccaggctta ttcaacctac aaaggctggg tggcttaaag agactaactc gcttagccac 120
 caacaaaaga caaaaaacat cttagactgt ggcctaagaa acacaacgcg ctaagtgcgg 180
 catgctgact tagcgagttc atatgacact taaacaaaac aggaaattta aactctcgct 240
 atgcccaagg tgcaatggct tagcgagttc atacaaacat tcatata 287

<210> 33033
 <211> 261
 <212> DNA

<213> Glycine max

<400> 33033

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ccaacatcca tgtaattcaa cattcaaaca acacatacta ccacagccaa gataacaggg 180
caaaggcaga aaactgtgcc caaaacacca accaaaatca cggctttttc tcaacttaaag 240
acccccgtaa cattgccttc g 261

<210> 33034

<211> 428

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33034

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ggaaaacaat tatcaataac aattatcaaa tgtcacagca tatttgtttt tgacatgaaa 120
gtacaataag catggtgaga tccaactaga atagtataaa ggcattgagag tttcatcact 180
tgtacatgac atgtaagggg atgagatggt catgtgcagt gtattgttgc aatgaanatc 240
aatatttgaa ttattatggt gaaaatcact gtcaaactct ctataatagg acaacattga 300
atgagtcaat tattttaaata gaaaaaaaag cttgaagatg ttttaactta ttttacaagt 360
ctcttgatac cttatctaata agctatgccca tcttataaaa gatcactttg atcatgtcag 420
gccaatta 428

<210> 33035

<211> 519

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33035

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tggagaattt tttttcttna atgccnccct cagggaagag ggcgttatgc cttctccata 120
aaccaaacat ttatgtaaat ttatagcana ctcatgcgca tactttctta cgaacattca 180

ctcgcacaag atatttttct aattaagaga aacgcgcccc cgcacaatca aagcgccttc 240
 gttacctaga acacttatat gtaccttcaa ggtggggttg cgacctacat cacatgcac 300
 ttctttgcgt aattataata catgcgtact cgaagcgctt tgggtaccaa caaatggcta 360
 cgcgcgccatt ctgggagttt catacccata ctcacacaac acttttgatg aatctcgtgt 420
 gccaccccaa caaaggggcg gcactatatg cgcttaatac agggttttgt tctataacc 480
 gatggcgaac ctgttatatt tcttgtagc aaactgcgt 519

<210> 33036
 <211> 443
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33036

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 cttgtttttt tttaccaaac caggtgttta taagaaaaat atccttcgca acactttcta 120
 aacgaggatg gggaattgtc caccaaatg ataggtaatg tttaatgaac ttaacaacc 180
 ttttctttaa aacaacgtct tcaataaact tgggcaatca gactaaaaac agggaataac 240
 ccatctagaa ggatctgagc tctacactgc aaatccgccg gtatcttggg ccttccaaga 300
 agagtctgc ctacttacat tattacgtag ggctgaaaa acaggacaaa cacggggcct 360
 ggctcttaac agccccaatc caaatataac gtaatgaacc aagaaccctg gtgctccacc 420
 ccactttgta ttcaaaagca acg 443

<210> 33037
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33037

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 cacacacaca cacttgttcc tagccgatca ctcacataaa tttccattct cccctttgt 120
 ttttgaatgt atgcttctct taaaattaag ttgattactc atgtgagttc ttgatttaac 180
 ccccatctct ctcctctttt ggcatacaaaa aaagccaaa gtgcgtaaca agtataagac 240

aatcatacac tattaatcat tcacaaggca tgcattgaag aatataaacc aatcatgaag 300
 caagaaacat gactagatca gatatattaa acaaatacaca tagtcatcta acataattca 360
 taattgttca aacacac 377

<210> 33038
 <211> 521
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33038

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 tacaggtttt ggtgtcnatt gtcacacaag ttggcactgc catggcgcat aaccacatc 120
 cctgtggcca cttcaactga actacgtact ccaagtaccc aatatctcgt ttctcttaac 180
 accggngtcc ccaattaatc cctcttcaag ccttgccaca acattgcaag ccagaacaaa 240
 ccattcanac aggcacaatg ctatcacagc caagccaaac agagcaaagg cagaaaactc 300
 tgggtcanaca ccaaccagaa tcacagctgt ttctcgctta aagaccccag taacaattcc 360
 tttcgatcca ttcgttaacc gttggatcga ctcgaaaatt taatggaagg ctcttgtaga 420
 taagcctaca ttgtgaccgg tgggatctac tagcaaacat tcagaactca ttctgcacta 480
 gactttcaca gccaaccaac acaagcattt tcttgacttg g 521

<210> 33039
 <211> 500
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33039

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 naggnnnagn aaggagaagc caatttactt tnnngacttt ttgacacgcc ggcataaggg 120
 caggagggnn ttctccatct catatcattc gcgcacacgc ctcatcatga gtacgtcgaa 180
 agacaaatct ctcaatttat caaacgttcg tacgaaggct acactcttct atgtaaaata 240
 tctccacctt atcataatgc aactcactac gagtctgagg tagcgtagta taccgttttt 300
 ggcacaacat cagccccctt ggttgcgaaa cacactctgt ctgaatcaag ctacctatta 360

cgaatcctgt tttgtcgcga cgtgtgaata ataaacaacg ctctctcttg cctatcataa 420
 tggatcagac tccttggcgc tacttcaactg ctttgtggaa cttgcccga tggccctggg 480
 ttagaaacat ttttgggttac 500

<210> 33040
 <211> 336
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33040

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 tatgatagcc gccgatgatc ccattactgc ttcccctaag ctctctatcc tttcttcacg 120
 ccgcattcca tgccttgcca actccttgga gtaccctcgc gttgtggtca ctgaaacctc 180
 gtgcgatgaa aggcgtgatg ctttcatctg atggtactcc tctcatggga cagcccaact 240
 gtcttatggc gaggactgga ttataattaa tacaaccctt tgttccatca aaggagcatt 300
 aggacatact tcgcatgaag atagaatact gattct 336

<210> 33041
 <211> 210
 <212> DNA
 <213> Glycine max
 <400> 33041

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 cgttgtgcaa tttcgagcgt cttgatatat tatgcgcctg aattggactc tcgtgtcata 120
 agtatgacca tttcattttc tcgagacctt ccgttggtca atttcaagct tctcgatata 180
 ttatgcacct gaatcgtgac ttcgtgtgac 210

<210> 33042
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33042

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cctgatagct gagaatcact tgaaattagt gagaaaaatt gtttccgtga agaaaatcca 120
 agtcgagggtg cttcctttcg taacgcttcc gagacgtttc cgtgggtgat ttcatagaaga 180
 ttttccgccg ttcttcacatg ttcttcgttc attcttcacg gntcttcaac cactaagtgc 240
 ctgaaatcga acttttcaat gcattctatg tacccttagt gggccccact tgtttcgcat 300
 gcttttattc tcatttcatt tactttctgg accccctggt gatgtgctgt aataatgtat 360
 ataaggcatt ntctcgcta atcagaaaat aaaatagaat tctaccgatc at 412

<210> 33043
 <211> 199
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33043

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 aatttgaaac ccctcgtttc aggcgtggaa ataccocgac gctttggggg gttcgggggg 120
 tgattcggag atcatctgag gggacctgct ggggttcgaa acgacccggc gggcctcaag 180
 gcctgcccaa gggtggaac 199

<210> 33044
 <211> 383
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33044

agcttaatgc tgtatggttt gtaaacaac ataaggcgag gcttggtgtg aagggatatg 60
 cgcagatggt cggggtagac ttctcagaaa ctntntcttc gggttccagg ttggatacca 120
 taaggctggt gttagctctt gctgcacaaa aagggtggat tatacatcac atggatgtta 180
 aatcagcctc tttgaatggg cacttggaag aagaaaattt tgtagagcag cttgaacgat 240
 ttgtagtcca tggacaggag gagaaagtct atcggttgaa aaaggccttg tatggcttan 300
 agcaagcccc aacgtcttgg tatggcagaa ttgatgcaca ttgataaac ttatgctttg 360
 aaaaatgtct aagtgagttt acc 383

<210> 33045

<211> 330
 <212> DNA
 <213> Glycine max

<400> 33045

aaaaaatatg cttaatgcga ctatccatgc tcgtttgctt gtttcaaccc gtacaagacc 60
 ttgtttaatc tgtaaacctt atgctcactt ccaatcttga cataaccggg tggttgttca 120
 ataaatactt gctccttcaa gtatccatgt aagaatgttg atttaacatc tagttggcaa 180
 atggggccatg aattttatgc cactaaagca atcatcaatc tgatcgtgtc atgtcttgca 240
 acttgagaaa aaacttctgt atagtcaatc ccatattggt gcttgtatcc cttcgccacc 300
 aaacgtgcct tgtacttgtc aacttcacca 330

<210> 33046
 <211> 293
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33046

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 aagagagaat tgtacattcg atttattttg gttcggtcac ttcctgtacc tacgtccagt 120
 cctcaagtga ccacttgag attttctact atccttgta attctttata atttctgaac 180
 acacattgng attcctcacc cttgtgtttg agtttctcac atgccaagag ataaacaatc 240
 tcttgattac aactattgag ttttattaga tgaacaaaat gatgtctctc ttt 293

<210> 33047
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 33047

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 ctgacataag cttcaaccaa ttaacattgt ttgaatgaca actggtgtag ttgcaccgca 120
 atcacatagt ttgtccacca tggatgctt tatgttccta ttggttatag ttttggtatg 180
 ctttatgttc ctttggttat agctttggtg gtagaatgtt taatttggag tccacaagag 240
 gaggatctcc atatggtgct ggagttattg ctggagatgg tagaagacaa gcaagtgaaa 300

tggagctgga gctcgcagag tatcatggca cgtatatatg aaattagccc ataaat 356

<210> 33048
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33048

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actcttagaa canaaatggc atacaacctc ctctcataaa taaaacatc aatgtaaant 120
tagagcaagc ttatgcgcat atttccttat gaacgttcac ttgcacaaga catcctatta 180
actaagaaaa atgcacccat atacaatcaa ggtagcttca ttacctagat tatttacatg 240
tacttccaag gtgtatttgt tatttacatc acacacgcct ccttggtga atttacatac 300
atgcatactc aaagcattnt gnggtaccaa anactgcaca tgcgctcatc ctggtatttc 360
taatacccat gcatatacaa acttcacgat gaatctngac tacctacaca ataaggtgct 420
acatttca 428

<210> 33049
<211> 329
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33049

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cactttgtca gattgattgt gaaggaatac attaatgtga tcccaatgag agtgtgatcc 120
ttaaactttg agagaaatga ctatcattta gtactgatcc ttgcatgaat ctctgaagta 180
ttgactcaat gcacgatatt gaggatgatg aacgccatat ttgattgtga tagccactta 240
tccacanagc tgaccatgtg cttgaatgaa ttatccctta tacctcattt gagctgaatg 300
aatgattgat tgattgaacc ctgagccta 329

<210> 33050
<211> 151
<212> DNA
<213> Glycine max

<400> 33050

taaatcctac ctcattggggc atataccaaa gctcaccatg cagataatca tacttttcat 60
gtgctagtcc tatagaatat tgaaaagagt gttcaaattg gtgggaggac ttgaacattt 120
ttgattttca gactatacgg ctttcctaata g 151

<210> 33051

<211> 558

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33051

cagggagagt tttganatct tgtangcatt tgnancnntc annaanntna gcgnaanacn 60
ccgggaggcn ttagagacga cgagctttat gcaagcttga aggccctggn tatcataaan 120
gcaagnccgc ancgagggc gcttttagcag cgaatagacc actcccaccc cgaggtgcaa 180
gtaagccaac ttgcacaaga acttacgaga agtctaattg gaatttatgg ctaccatgga 240
gcctaaccct tatgagcatt gtaaagcagt gtcataacg agcatgcatg aagagggcct 300
anctcatgat gttgctaacg gtgggtgtga cgatgatagt aatgatgacg aagagaaaac 360
tccagagaga gaaagagaga gagagagaga gctgtgtgtg gaaaatgcag aaaaaatgat 420
gataataaga aaaattgtct caccgagggt ggcgattcat gacgggtctta tatcccacaa 480
ccacgagtca ttagtgaggag aaagctaaca acggagcatg tattgagcct accaaggatg 540
taccttattc tttggccg 558

<210> 33052

<211> 434

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33052

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agagnggcct tttttanaaa ttctccaacg ggaggcaggg tcttcgtgaa tgcacaaacc 120
aactgcccac aataaatgat taaggattat agactgaaat caatttatta tgcgcaggcc 180
atactgcac atcccagtct cgaatgccca attgacatat cgatatcact gacactctct 240

acaattatga cctactttgc aacacaccag gtgtaagaaa aaaaagccaa agatacactc 300
 ctctgaacag ccaacatttt catattaaaa aacgtgtgtt tacaccacac ccaaatgatt 360
 ctaaagatct catttaccaa attaccaaatt gaaaaagggt gaattaaatt caatctcctt 420
 taccaagcgt ggtc 434

<210> 33053
 <211> 408
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33053

agcttncatc agtttctgac ctctaacttc tcaaggaaac tttcttcctt gcttgccaag 60
 gaagctacct tccttgcttc tcaaggaagc ttctcatgtg ctagagtcac accttccatg 120
 cttctggcat ctaaagggaata taaactaaga tgcttttaac atattcttga aatattcctt 180
 ttagattcac atgaaatgaa aattatattt accaagtga atttcattaa attagtgacc 240
 taagctgtaa atagacacaa gtgtaaatatt tgtcacaact taaatgaaag agaaacttgt 300
 gagacacact tcanagttca acttctctct ctattctcct tcaaaatnca cgccacactc 360
 tctctctctc tttctctcat tctctttctg cattaaaaca tcattctct 408

<210> 33054
 <211> 531
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33054

nnnnnnnncc gactggcagn gtcgangaac ctganaacna acnngacaan acctncctgg 60
 tcatgatgag ggaattatct tttntcttn ntccannnn gtganaacgc caaaagaagt 120
 cgacagaccc aatgaataga attcatatat tccgaaaatt ccttcttctt ttaaaatnac 180
 aagaacacga tgcacttttg gattcccggt tggggcctca cttgttcttt ttctctaccc 240
 ttcaccaccc attttctctt ccatgcccaa natgcatgtc ctctntcttt tgttggtttt 300
 ccattgtcat ttcgctgaac cctttctacc ctaattcttag agtacaatcc cctgctctct 360
 ccgatcaacc attaccgact gctcaccacc cattctgtct tcgtgaacac cgtcatcctt 420

actactccta gctggngca tctatgacaa tcgtctgcat gtcaccgncc ctcacctcat 480
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<210> 33055
<211> 335
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33055

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tgccaactta aagtgggaatt aaacaaggta taaacttaaa gttcataana aagttaaata 120
atgctcaaaa taggcaatcc tagcttaaata tntaccctat ccttgatgtc acccaaagtc 180
ggcaagtaca acttatagaa ttctctctg aatgcatcca caaacctaaa taaagtttag 240
aaaccatcaa gaataagaca attagaatct gtttgatttg tataaatnta agggacaaca 300
agatacatct actatattat agtattttca ctttt 335

<210> 33056
<211> 446
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33056

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tccggtgggc tccatgaata tcttanccac tgtagtagca gtgtagtgca ccggaagtat 120
ccccatatgc acccctttgg agaaacgggc caccacgacc aggaccgcca agggcggcaa 180
gccaactata aagttgaggg agaggtcctc ccaaggtctc gtcggaattg gtagcggaca 240
tagtaatctc tggctcctac ggtggtcatt cttggtctgt tggcacacga tgcacgtgga 300
gatgaacaac tggacatcct gttcataga tggccagacg annattgcac tgatgcgagc 360
caaggtcttt gtattctcat gtggccgcca gtgggagtgt tgtggaattc tgcgacgatg 420
gtggagatgg cctgaagacc tttggg 446

<210> 33057
<211> 499

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33057

ggccacgttt gtacatcgat gaaccctggn natcaaaanc anaaccgacc ccnntngtga 60
ggtagagagg gancacttct ttttcanatg ttctgccacc cnangaggag ggtgctggag 120
ggctaagtat cnaaccacca gactctaaat ggcatggttt aagttttata atgttgtaat 180
aggaatgtag ttccatcagg cctaagttat taccgaaacc tctgagaacg gaaggtaatt 240
tggaatttgg cgacctcatg agacatcggt tggtgggttt taggcctcct tcgtacaaca 300
cacaacgtgt ttcgataaga gaaatgcca tatggatcaa ctctctagta caacgacccg 360
cgcttgtctt atctataata cacgtcgctg cattactgcc ttacctacat aaagtactcc 420
attattcttt tgatgacacg ctttaccaag gctaatactg agagcttgac agaacagtcc 480
tggttggggc gtgcacatc 499

<210> 33058
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33058

agcttganaa attctcanc agatagttat tagtagcacc aaatatgata tcatccacat 60
atatctagat gattaggaat tgacttctat aatctttacg aaatagagta gtatctacct 120
ttccataatc tttgctttaa accatacaag gctttattaa gtttgaatac atgatgaggg 180
tagatagaac tctcaaact aggggggttg tccacataga cttcttcctt gataagtcca 240
ttaaggaaca cactntntac gtccatttga tataacatta taccatgatg agcaacaaag 300
gatagtaaaa tgtgtatcgc ctctagacga gtaacaagaa caaaggtntc actattatct 360
ataccttc 368

<210> 33059
<211> 547
<212> DNA
<213> Glycine max

<223> unsure at all n locations

<400> 33059

ggggnctcgt ggacccgtcc cgangacgcg cancttnatt actcaaccta tgccgccaac 60

atctacaata gacctcctca acctcagctt ctattcagcc acaacagaat aactatgacc 120

tctgcaagca caggtaccat ccccgatgga agaaatcatc caaccctatt tggtcgaaat 180

cttcacaacc acaagcacia caacaaccct acttttcaaa tgctgtggc ccaagcagac 240

catacgttcc tccaccaatc tagcaccaca gccacaacag aaacaacann acagtaaggg 300

cccctcgcaa cctcgtcttg agaacttggt aggcanaatga ctatgccaaa catgcagtnt 360

cagcaagata tcaaagcctc cattcagagc ttaacttata agatgggaca gttgggtaca 420

cagttaaatc aacaacagtc ccagaaatct gatagattac ctttctcatc tgtccagaat 480

cacananatg tgagtgccat tacattgagg tcangaaagc agtgtcaagg acctcaccaa 540

tagcatn 547

<210> 33060

<211> 377

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33060

agcttgaatc ggtctctcag tgtgtataaa gttatgagca ttntaattgc tcgacagctt 60

ccgttggtca ttttcgagcg tctctatatg tgatgcgcct taatctaact tccgtgtgaa 120

aagttatgac catttgaatt tctcaagagc ttcctttggt caattttgag cgtctcgatt 180

tgtgatttgc ctgaatcgga catccgtgtc aaatggtatg accatttgaa tttctaaaga 240

gctttcgttg ttcaatttcg agcctctcga catattatgc gcccgaaatcg ggcattcgtg 300

tgataattta tggccatttg aatttctcaa gagtttccga tgtttaattt cgagcgtatc 360

gatataattat aagcctg 377

<210> 33061

<211> 276

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33061

[illegible]

```
<223>      unsure at all n locations
<400>      33062
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<210>	33063
<211>	335
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      33063
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13769

gattgaatca ctcataaaaa ataaaataaa aaagt

335

<210> 33064
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33064

aggagtgagt gttctgtata ccttagnaac canaannnat ntagacnccg gataactctna 60
gacgagnnga ngcatgcagc attttcaata tttgngggcn ngcttctggg attgggtgat 120
tatttgaaac atattgcgca tgttatgggtg atcgттаааа atgagataaa ctctgtttatc 180
atgataaaac atagcaacct accaattttt gacatcatga tcaaaccaac aatgtacccc 240
atcaaaccaa aatattctgc caaaattctg aaataagggg cagctcgaat gacatctatg 300
acttgtaaac atgagaatat gtcttgattc caaggacacc tcgaatgggtt ttgagattat 360
atggttaatt taccatttca ctgtgaatgc tttcactcct atttttgata tcatagaacc 420
aatctgccta cgattgaaag gcttgacttc c 451

<210> 33065
<211> 204
<212> DNA
<213> Glycine max

<400> 33065

gacgggagct agcttacaca acgctacaat ctctttttat caacggcgag aggacctcac 60
aaatatctca gggaccaata aacgagagaa ctgcttaact ttttaggagg cgtataacta 120
aggagtgcaa aaaattatga cagccatata gcagataccc tcaaatactc gagaacgaac 180
agcagtcact acataaactt tggc 204

<210> 33066
<211> 318
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33066

gcccgagtgc tctgccacnt aatctagcag ctgacaccat gggaagatac ttttttgaat 60

gtcgctctaa atgatggcag tagttcaata caaccaggca aataatttat catgtgatgg 120
 agtgtcatag ctaatatcaa acattaacaa gtaattgatt gccaccaac tcggtggatt 180
 ggcttactaa cacaatatca aaaaaaccct tgctagttta taaagacacc ttacttattc 240
 cctgtacaac gttctaataa tactatttat ataacatttc caagcttcga gagctcataa 300
 cagtctatca ctatcact 318

<210> 33067
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33067

agctatcgaa tctgaatctc attctttatc acattgtctt ttctgtacta aaccaaacc 60
 caattcgcta actttntacc aaaatattaa ttatttaatt aggaggggca tacaaggaaa 120
 tatattttca aaacctatct aggaataaat ttaaataaaa tacaaaatca aatctattgt 180
 ccgaaggagg cgccgttggg tttctatcc taaatcctac cattttccct ttccataatt 240
 ctactctcc gcaatattat ttctcttcaa agtcattggg aagttaaaga cattnntttt 300
 ttataattnt ntgcccatan aaaaaaata attccatgta tcgaanattg aatattcaat 360
 gtaaaccaca accttaattg aacattatat tc 392

<210> 33068
 <211> 478
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33068

gggagaggag agtcagagaa cttganacca aacnatagca actnnnccaa cgtgtagacg 60
 aattattttac ctttagaaaa ctgcccgtg gacagacatc gctatagaga tatccaactt 120
 ttagggcaca tgctacacaa ggctggcat cagtacctct cagaactgag gcccaacaga 180
 catacatatc tgctaagaca tacttgttct tgcaaaacta catactacaa acttttcttg 240
 agccacctgt accttgcta gaagaacgag tgatgcataa gaccctgcct aagatcgctg 300
 ttcttcaaga catcaaggac ccagactga gcttacgcat tcagatggga ccgttggcta 360

ctcaattgga ttagcgcccc ttccgaagac tggatgatgaa tctctcaatc gacataatct 420
 caaagtgggtg ttgccactcg tcttagcgtg aaggtgtgca agactcaacc aaacaccg 478

<210> 33069
 <211> 272
 <212> DNA
 <213> Glycine max

<400> 33069

tgaagctctg ataccacttg ttggacaagt ggcctcagat ctcttaacaa cggggggggtt 60
 gaattaaaaat attcgaaact ctttcccctc attaaaaatc tatcttactt tttacttaag 120
 ttatgaattc ccttaatgac aatcttggtt tatattaatc cacatgaagc aacttgacta 180
 tgaatataaa gcactaatac ataaaggaga ttatcggaag agagaatgca aactcaatta 240
 tatacatggtt cggccacaca cttgtgccta cg 272

<210> 33070
 <211> 213
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33070

tactcacgct tcaagaaaag gcccaactct ccttagatat catatntcat gtttaaataa 60
 gtggctntgt tegtgttgt ggccttagcg caattctgaa ccgcttagcg cgcattagtg 120
 aattatggct tagtgtggct cttctcgctc agcggatgga ctaaagcggt ctgttttagcg 180
 gggtgaccct tctctcagct aatatgcaca act 213

<210> 33071
 <211> 381
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33071

agcttntgcg gattttgnng tctttgccag tgaaagggaa atcgatgtgg ggtctaanat 60
 ataagggcaa gtttaagtca cccttggtt ggaccgaatg atgataaact ggggcaacat 120
 gaagaagggt gagggatgaa ggggagaagc ccgtgcttgt gaacttgcca tttccaatac 180

[illegible]

<400> 33072

<400> 33073

<210>	33074
<211>	261
<212>	DNA
<213>	Glycine max

<223> unsure at all n locations
<400> 33074

tcaagaatca agatcaagat tcaagattca agactcaaga atctagagaa gacttaatca 60
agataagtat gagaatgatt nttcanaaac tgagtagcac atgaattttt cacaaaacat 120
gtttaccaa gggtttttac tctctggtta tcgattagca aattgctgta atcgattacc 180
agtaacaaaa ttgttntgaa aaagtnttca aattgaattt acaacattgc aattaatttc 240
aaaagttgta atcgatacaa t 261

<210> 33075
<211> 213
<212> DNA
<213> Glycine max

<400> 33075

caactgacat tgcgcttggc ggccgcgctt aacaaagtat tttctacacc tactgttcgt 60
tgatttgacc aatgctgtta tgggaatggt tcgacaatcc ttcaaaaccc tatggatata 120
ttctgaaagg ttggttgta tgttgccata tcaacgtcct tctctatcat aagccatcgt 180
ccatttttac tgttgaattc gatcaaccca tgt 213

<210> 33076
<211> 533
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33076

aggggaggag ccagggttag anngtacctn tctnatetca nacnntaca catecngnnn 60
tccnctcag tcatagcaac ttatctttct cagcttttca ggccaaaggc ggaaacctct 120
ggccaaactc aaacccaaaa tcacagcttt ttctcaacta aagaaccag tacattttct 180
tcgttccaat cattcaccgg tggaatgact tgaaaattta ctggaagttc atagtcataa 240
atctacattt tgaccgtcgg gatctgctag aaaatatcca aaccccatat gtactaccct 300
cttcacaacc aaccatacac aagcattttt ctgcacttat acaaaaatct tgctgacatt 360
tcaacagcaa aattctgcat aaagtgcaga tgtcgaagac cactctngcc ttcattcaat 420
nttgcccaaa tcgaatncta catgtcccaa atcatgtttc aatcatgtct aaccaatgac 480

aagcttcaga ctatagcaac acacaatcta ggtatccaaa cctctcatta atg

533

<210> 33077
<211> 291
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33077

catcgaatat ccntatata naccgaccag aggnaaggga aaatttattt acccccggccc 60
gggaggggtat ggcgaaaacc tccccggtgg ccaaaccaac acttattacg tcaccgccgt 120
taagaaacgg agctaaaaca cctgcacccg tcagcttcac cagcgaacta atatgaaccg 180
cattaaaacg gcagcttggc ccacaagcgg acatccctaa taagggatta atgttatata 240
aatgggaccc caccgagagt agatgcggct tgcggccctt taatcacggc c 291

<210> 33078
<211> 281
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33078

gagagtaata tgtgcaccnc acaacnaaca ccgaccagaa ggggattatt tactttcaac 60
cggggaggag gaaaacccaa aggacccaaa gccaacgcga cagggaaccc gccaaaaaag 120
gagcgccacc caaaaaacca aagagaagaa aacacgaaca cgcgaaacca cgcaggggaa 180
aacaggagaa caggaagaag cggagaacgc acagacggaa aaccaaaga ccagcgggaa 240
ctaaccagcc ggaagtggaa gaagggccgg caagaccgc g 281

<210> 33079
<211> 372
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33079

agngggaatt attatctatt tacttnnact catnnatnta ttgattttat gtattatagg 60
agaacttaaa ataaacacgg ttgttacagt aatcaattac atatccatgg taatcgataa 120
ttactttgta aatcagttat aaaactgttt tgagcttctg gtaattgatt actagagagt 180

004400400

aaaaactttg gtaaaagatt tttctttgaa naattctttt ggacaaattg tgctattcaa 240
 tcttttcttt gaaaaattct ttttatactt atcttgatga ttatcttgag gctcttgcac 300
 atcttgagtc ttctcttgaa tctcacttga atcttcttga tttctttaat cttgtttgaa 360
 aaatcttttg ca 372

<210> 33080
 <211> 520
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33080

agggcatatc aattcncttt ctttgtaccg acncttanat tnatcaacnt ncctannaac 60
 atntcatgcc gggggacctt cttctagtagt tcattttctac agcatcctcc aacccttttg 120
 ccttcccaac tagagcaatc ccaaccaaana aattgggaaa aaccggaaaag ggagatcttt 180
 gagaaccttc aggaaggatga nggtgacata cctctgctag atgccctcag cgaattccag 240
 ataaccaag ttctaagtag tgtgcacatc aaaagaagct caaggcaata aaaggattaa 300
 catggcagat atgtgtcacc ttgataggaa atctgttctc acattcctga gaaatgtang 360
 gaccangtac tttctgtata ccctacattt atngngaaca atanatntga gaatgctttg 420
 ctagatctag gagcatcagt tagtgtcatg cctctgccat ttcaatctta tctttgacct 480
 ttcacttaca atggggatca tttgcaatag agtgtgctcn 520

<210> 33081
 <211> 296
 <212> DNA
 <213> Glycine max
 <400> 33081

ttttttgcca agtattcaga ctagccttat tcatttttaca tttctagcct gacaaatcac 60
 actctatccc ttgcaaccac ctctgcaatt attttcatat caactgctgc ttgaactatg 120
 gactgaactc ctacttcagt tcttggtgtg ggagacttgt ttctgtaaaag caaaatgatc 180
 gtaaacctgt gatcctgatt ttccatccta ttttaaagcg gaatttcaca taatttcgtt 240
 ctgatagatg attcactaga tcagcaaaat aaaattgttg gtcaatagaa ccttac 296

<210> 33082
 <211> 162
 <212> DNA
 <213> Glycine max

 <400> 33082

 agcttgtccc attaacacgg ggggggttttc ttgcgggggc gacccccctt tttaaactt 60
 cctgacggca aaatacgta attttgtcaa taagctctct ggccgattgc tccttagtct 120
 ttgcagtgat gccccggctc aagctaatac cgacctttcc gc 162

<210> 33083
 <211> 260
 <212> DNA
 <213> Glycine max

 <400> 33083

 agcgtctcga tatattacga gtctcgagtc aaacatccga gacaaaagtt attgtcgttt 60
 gaatttgctc acaggttcaa cattcaattt tgagcgtctc gttatatgac aggactcaat 120
 ctcacattct agtaaaaagt tattgtccgt ggaattggct tagagcttca acattcaata 180
 tcgagcgtgt cgatatatga tgggactcaa tcagacatcc gagtaaaaga tattggcgta 240
 gaattgcgta cagcttcaca 260

<210> 33084
 <211> 551
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33084

 aaaggtggac ggaatgcgat agcancnccg cgacactcta caatacnnaa cactngagat 60
 canngaagcg cnngaanagg agagacatcg ctgtctcatt ttgtcgacca tcagacgcgg 120
 caccctggga gatagtgtcg cggggagtc aagagacctt tgnggaccgt canggtgggt 180
 gtgctaattg ccataacca cagctgtgac caataccga cccaaccccg ggcataggct 240
 ggtcagttag aacctgtgat gtacctaacg acgcgagctc ctngcagtca actgattaaa 300
 ggaacaaaga ccacaaagca cggaggcttg tgggtggctgg ccaactctga attttgtgtg 360
 atatgtggat tatggcctct ggtgatcgat accaaggggtg ggaatcaatt caacggctta 420

aatgacacag gagactagat gtctctgtaa tcgataccag gggcgatcgc atatcatctt 480
gatacnaagt catgaactaa tgacgctctg gtatcgattc caccagtgac atcaatacac 540
agagggatgg g 551

<210> 33085
<211> 289
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33085

ccatttecta gttaaccatg cattaggtac catgttcaat tattttgctt ttaagtgaac 60
cggtgcttatg atcccaacat gggtggctcg tggcgcctaa cacatgaaac taagaatgta 120
gtgtgaagtt tcacgcttcc cccttntttt gttttgtctt gtagaggaga atgcaaggat 180
gagcaaacat gaaaaccaat ggtatgcaat tttgcagatc aaaatagttg ttgaacgcat 240
atgcctgatg atgccatgac tcatgcaaaa tgtgacgccg gaatatgat 289

<210> 33086
<211> 525
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33086

ggcaatcttt ctgaattgca tgnncnncg cnanncatcn natnnaen n aactcgaacg 60
cnannngcan gcagaggagg aggaggaagt gaattgttct ntctcnana caccgacgag 120
aggcgcggtt gaagcgaatt gcaactcacct acagagcaca gaccggacct gagaccttgc 180
atacctcaac gcaggcgat gggacaatac aaatgctatg ctgcaaatac cgacaataga 240
catcatccac cgtcgatagc gaatcgacca cgctgaaca gatgcgcacc ctctagcaa 300
ggataccacc gtcgaaagag aataaactg attgggaagg cgtaccctca taacagacaa 360
agaacggggc ctttcttcca aatgccgtag gtcctaggaa ccataatttc ttaacgctat 420
gacaacccaa tagccctaact actgcaagcg tggagcggtt ccacaacttc cttaagaact 480
tggtaggcac agcgttgcca acatcgacta cacaagaacc aaccg 525

<210> 33087
 <211> 550
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33087

gggtnnncngn ggcgganagt ttgatcgatt tcctttacnt tgcacaatca atnaannaca 60
 annncncenn nnggnnagaa agngaggag caaggacgta ttacnattct tccangacaa 120
 cnacacgcgg cggcgaggga tttctagatt ganccaccca cttcacgatc aagcctcatt 180
 tcaagttccc tgaccagaac atatgaagga tctacactcg cgagaggggt ggttgccaca 240
 ttccagagac gatgcagttc cggtttcata caccaaagc ggaggacttc acatcgcggg 300
 tattcgacag actcttacac ggctcacata gcataggtct ggtctgcgaa agagtttttc 360
 tgtaaactat gtgagttagc cacattcttc ctctttctta tcgatggccg gaggccccta 420
 ctttatcaca actttccggt ggggtttacc ttcccacatg gttcgacccg gagtattcgt 480
 acccacgggc tcgggatcga ctccccgcgc atttatctat gggctctgac ccaattgcga 540
 ccactcagcc 550

<210> 33088
 <211> 494
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33088

gcagaatttg tgatctatac nncttganac acaancnna ttaaacacng agccnnggag 60
 agaaagaaag ttatttttcc actttgagcg aaacggggag gagatgggaa cttttcta 120
 actagaaaca atgatgggtcc catttcaatc taaagtaatc ctaagctatt catgtaacct 180
 gtcctgggct gccagcaagn ggtgaaatct gtgaagtacc catattccac tgctatttag 240
 actggtagcg agctgtggag ccgcaaacac actcgaattt ttgctaaggt gggcggcaat 300
 ccataaatat attggagggt gttgttctat tttcatacga aacgagattc gagtagttgg 360
 gctatatctc gggctacac ttctaagata tgattgggtc gtgatacttt cctaaaggta 420
 atctatactg actgtaccaa acctccatca cttggccgag gggacttact cactcgtttt 480
 aaacataata aacg 494

<210> 33089
 <211> 354
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33089

 cagtagagcc tagacatgan acnacacnaa caaccnnggc gcgggggggg ggggtggtgn 60
 ccaactcccc ccgggggggg gggaaaaacc acaccccccg ccgcgaacag aagcgagcga 120
 acaaaacaga gcgcagggca aaccggacaa aaaagccgaa gcacgcaaac acggggagga 180
 cgagcaagac agcaccagcg ggagaaacac aacaggggaag ggacagagaa cggcagacgc 240
 gcggaaccca accacggcac accacagaga caggcccggc ggaaggggac aaaggcacgc 300
 gagggccaca acagcagacc ccaccacgcc aaaccgcaag ggcgagaaga gggc 354

<210> 33090
 <211> 363
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33090

 agcttttgga atatatataa tgtgataact ntacctagt gttttgtaaa gctcaaactg 60
 tgaccaaaaa gcaactggatg agaaataatg aanaacacca caactgccaa gggatttcat 120
 accacctcat ctcatTTTtct tgctcccttc cttgtcacc aataaaaata ataaaaatat 180
 gatgtatggn tgaaaaataa tgTTaatnt atctgttgag gtgatcattt ntcttttgga 240
 gaggaagaag gaaatactct aaagaaacag gtaattntat tacatcttac aacaagaatg 300
 cangtttccc attggTTtat canaataatt ttctaattat tttataaata aaaacattat 360
 tga 363

<210> 33091
 <211> 397
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33091

gccagagtat gcatgattcg accatnatct cagctggaaa aaataaaggt tcgggttaag 60
 atgttttctc tccactctgn gngaagcgaa aggaaagacc atgttcgaac cttgagggaa 120
 agtacatggg gataggttta tactatatct acggccaggt ggaccagttg gagtgcctaa 180
 attttcctgg tttaaagtgt gcttctggta tgaaagctct gatttaaaat aggctgaatt 240
 caaattatct gtttttttct ctttagaata ataatgttta gggctatata caagctccgt 300
 accttatgga ctgagtgtga tccttatgaa ttcataataat gactgcgtgt gacttcttgc 360
 taaaaagttg ctactatct gatttcatca tgcncaa 397

<210> 33092
 <211> 546
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33092

nntacggaaa gtcccgaacng catgncgtct gcnatctcag cctntacgaa canaatggcc 60
 tcattctttt ccaaataatgc tggttgaatt ttgtacgcat caacaagaat caagcccagg 120
 ctattgtgcc agcacatcat gggggcaaac acaccaaagtg attatgatga tggatggctc 180
 caattctcac aaaggtaaata cattactttc caattgagcc tttcaaacta tcatgacatg 240
 tagaagagaa tcaaggattt caagtcacaa aatgtcgaga acttttattn ntcaaacaat 300
 taccatttc tttgacatat cctataattc anagaanaac atgcanattc gtacgtgcac 360
 acaaaatnga ccgcaaataat taaactaaaa atccgacgaa actaacaaca ttaacaanat 420
 aacacaacta acagattaac aanaccaaca aaactagcca aaccaaagaa cacttcccc 480
 cccccccat acttnaaca cacttngtc tcaatgtagc acaatttana gaataagaac 540
 cattan 546

<210> 33093
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33093

ggatgtctag ctagagctca ccaaacacaa cgcagccgcc nngccaagag gagagagata 60

<213> Glycine max

<223> unsure at all n locations

<400> 33096

gcgacaacag cggagagggtt tttgatatga taccgcaca attatanacn accnnnnccc 60

nnnagannng nctgctctga ggacaacacg ttttaactct cccccgcac gggcggatgg 120

cattgccaga ttagatacgt cgagaacatc ttgnattgct tatggagtat gcttcaagcc 180

gaagagggat taatagacaa ctgccctgct tctgaggtgg aaagaagtga nagccaggat 240

cacccgagat cgatgacgtt gctaagataa atancgtgaa ataaagaatg gaaccaaata 300

ctcattactg ctgaaagaac aacatgggga gaataaatct tgtccagaag ttatccttcc 360

aaatcttggg ggaactcttc taatataaga aaccttggga ggaaaaccac aaccaagttg 420

tctgattctg attttgtcat tcatcttgcc aatcttgtgt atgttaatat ttaatch 477

<210> 33097

<211> 493

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33097

nnccccgagc aggtccgaag tcnnccntnn atacanenca cgcagacann nccgaggcta 60

caggagagnn gttagtTTTT cgcgcgacca cccctcgagg cgggactgga ccggaaacac 120

accatagcca accgcgccac agggcatgcc gatcgaccg cataccgatc tagaacgatg 180

ggtgatcaag atgagacaca gcatcagaag acagccgacg aggcngcgag aaacaacgaa 240

aggccccacg acagtgcact gctaggaatg agagcacgca gcgcaaagac agggccacag 300

cagccgttgt aaatgcagat gccgaatctg acgcacacac aatggggacc gcgcaccagt 360

caccacaaat cgactaagct gcgaaagacc acatgcgccg atgcagcctc ccggcataca 420

ccgacaggca cccgatggat gccgccacca ccgcaacaac ctggnacgaa gggccaatgg 480

aaccacctg aac 493

<210> 33098

<211> 147

<212> DNA

<213> Glycine max

<223> unsure at all n locations
<400> 33098

gtttatatan gcacatatgt gagaaaaact aattgatata agaaactagc tagaagggaa 60
attagaaaag tgatcgatat agctgtgatt ttgtgtttgt atgtggccac atgagagaga 120
gagcaatgat gacattggag tcatcat 147

<210> 33099
<211> 492
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33099

cncaagcgag ttgatgantt catgacantc ttgnacacna catanacna agctagccac 60
ccanatcgcc caggagagca cagctcgctt tgcatacntg ggttgcttcc tcacgaggca 120
gcggtctatt tgaggattat gtgaggaagg cccaacagtg ctctgtctgt tatgtgcacc 180
cacatgatca ctaacacacc cctgactact ntgagggaga actctttacc agagagtgc 240
cgcgctacaa atttgaaaca caactttatc gctttacaga tgttcagaac actgctgatg 300
attatatgat cgtatttgac tactgccgtt tctgacctca ctaagagcaa agagcgatc 360
aacattgacg cgagctctga aattatatat gagcatcttt tggatttgat tgcgcattcc 420
ttaatataaa aaccctatgt ggtgccagct ctaaagacat acaagtgggtg tattacatag 480
accgcatga gg 492

<210> 33100
<211> 351
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33100

agcttttcat attcttattt ggtggctnga attaccttac acatacaagg cttgatatag 60
ctcgtagtgt gagtgtagtt tcaagatatt tgcactctcc aactaagcaa cacttatgtg 120
caacaaggag ggttcttaag tatgttgcag gttcaatcaa acttgaggta ctttatgaga 180
gtgtggataa tttcaagttg gttggctata gtgatagtga ttgngtaggg ttcttagatg 240
ataganagag tacatcagat tntgtattca gtcttggctt gggagccatc acgtagagct 300

ccaagaagca agacacagtt gctttatcat catctanagt ngaatatgta g 351

<210> 33101
<211> 419
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33101

tgcattgttcc tttttgttat tgttgttact ntgactacga ttgctaaaag aacaaaatgc 60
aatgagtaat gcgacaacga attaaacatg aatgcatgat aatgataagt tgttaaagta 120
ttgaaaccac atagaaattt cagcanagac atagggttga atcacatctc attntcatta 180
agagataata ttgtttatct tgtcaaagcc aaagcataaa taaatacaaa cgtcttagcg 240
gttcctaatt atgtgggaca tcaactcgat catataaaga caataatcga aaagcccatg 300
aacttctca ggagccgagt atacatccgc cattgccttt gdtctggcta acagccttgg 360
aagctcttga ctcccattca gaggtaaagt gaacctatcc atccacttca taacttctc 419

<210> 33102
<211> 462
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33102

agcttgtata tctgccactg gttcagctcc aacactaacc aacagcactg cttccatcac 60
caaggcagct gcaaaaatga acaagagggg cagcttcttg tccattntcg gctctaacag 120
agaatatcaa cagttcacca caacttggac gtaaagtagt gcctccacta aagatattgg 180
tcacctttac aagataccaa agtggtgaaa taacgaagga tcaattagac aattaataaa 240
cacgactaca ggagtgtntt ccttatatac gcaaacttga accaaagaca atngtgtatg 300
tggtctgttt gtatgtaccg tgtgcatttt actaagatta tgctaagtgt ctgttgagtc 360
aaaatatgca cctcgtgtaa tcgtgtctga catggacatt aaccctatta acatttntgt 420
cattcgcccta ctcgattggg gtttcttaat gactataaca aa 462

<210> 33103
<211> 240

[illegible]

taatccgagg	cttactagtg	ttgccttatg	cnccttttggc	nganaaacag	tatgatattt	60
aatgatatgc	tgatacttac	agtcagaaca	atgagaatga	gatccttggt	acgcctnata	120
ttccagacat	ttatttccct	ctctactatc	cacgagacta	ttgcactaaa	gatggctcaa	180
gtaagttata	ataagaaaaca	ctttcattgg	ttccggatat	cgctccacgg	tttcttttcta	240

```
<223>      unsure at all n locations
<400>      33104
```

ttccctggttg	tttctttgag	aagctntctc	aagaggcttc	tttgagaagc	tagatcctta	60
tctaccacaca	cccttctatt	aactaaatta	acctccttga	aaataattac	ggataaaaaa	120
taacataaca	aataatcaaa	catcaaacat	aattactaat	atatatatat	atatatatat	180
atatatatat	atatatatat	atatatatat	atatatatat	atatatatat	acatatatca	240
gggtgtgaca	actctcccac	cctcttagaa	atttcgccct	tgagatatac	cttactcaaa	300
caaggatggg	tgagtntctc	gcacttgact	ntctaattcc	cacgtggcat	cttcttctga	360
tgcaccttcc	cagatcacct	ngaccaacga	natctctntc	tctcttaggt	gttggtgcgc	420
ctatttctcga	ccctcaaagg	caatgttata	tatgtcatat	n		461

```
<223>      unsure at all n locations
<400>      33105
```

13786

cgtttccagt ttttgaaaga acactttaat cgatgtaaaa gataatctaa tcgattactt 240
tattgaatta tttgaatgag ttaggatcac ttgccgatat tagttaaaga aaga 294

<210> 33106
<211> 431
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33106

agtctagtgc ttagtatgac ttcttgatac cagtgatcct aaattagtta gatgccaaact 60
gtaggcaatg taatgtacta cagttcctct taaattnttc tgctgtaagt tctatttggtg 120
ctaaatttat ttaggttatt tccaattgca tgtcagattt accccggatg cctcttgaga 180
tgagatatat agccatggac ttagttggtg agtctaacag agattatagc ctaatagaaa 240
accatataat ccatttcctt cggngttctg tgagaatttt ttntggtttg ggttcttggtc 300
caagtaaaag cgtataatta tagtttgctt tggagttcag aagatantag gaagatagta 360
ttatcttntt tctgaatttg ctatctcttc ttattcgata ggatttggtg aacctacctt 420
catatatcca t 431

<210> 33107
<211> 508
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33107

aaaccacagga aaagggcttt gaagtagcnt nttanactct angcctcatg tanaccatgg 60
atgaaggata atctaaagta gttattatta taattttttt acctaanttg ggggtggaaat 120
gaatatattc ctaatattaa tttcaaaacc attcaatata tatatatatg gttcaataaaa 180
attgctcttg gaccacaatt ttggtaatt taaaaaaca tataatttga aataacttct 240
aatgggatat atngattcat atttcattaa gttactctta ggagaactga gatanaataa 300
taaaagtaaa tataatnnta ttctatatan tatatattag ataataaatt atatacaaag 360
tattattaga aaatgaatan atagatctaa atgggtataaa ggatatatac attcttngag 420
ataaaatcat ataaacacat ggtagagata tattgggttaa ttcgcgatta tattattatt 480

atatattatg ataattaaat ttcttatn

508

<210> 33108
<211> 276
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33108

agcttataaa tatctaaatt attatnntaa ataaatattt gtttgataga ttagatttaa 60
aaatataatt gtcaatgata ttntatatca ttntatgtta aaagagataa aaatntacat 120
gtaaattaag atattttnta tttatcaata tatntataac gaatgttcta aaattagaga 180
ttgaccactc aactaaagtt gattaacata gagataaaaag taagtgttat gtgtacattn 240
tttaagagcc atataagaat aaagtgaaat tgacat 276

<210> 33109
<211> 544
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33109

aaaacagact gcatcggtta ngatgatcca ntogaanaca cacaagcccg aantgaggaa 60
gngtagaagg gtgagacatt ctggctttat ttcgttacca catagctgnt acctgaagat 120
atgntgccgg tggtcaggat acccttagcg acctcaggtg gtgttgctat ttccacaacc 180
cagcgtagac caatcccgac caactcgggc atagtcagtc aatgagacac tgtgatgttc 240
ctacacaggc agtcctggc agtcaacttt ataaatgaac agagaccaca agccatgacg 300
cttgtgtggg gctggccagc tgtgaaactt gattgctata tgggatgtgg cctctggtaa 360
tcagatacca atggtggcga atcgactaca atgctttata ttgtgaagac atgaagctat 420
gatggcctct gggatcgac taccactggg tgaatcgatt accaccctga atatngatc 480
atgaatctaa gaaggcttct ggnagccgat cccaatgggt agaataatta tcaggtagg 540
aatg 544

<210> 33110
<211> 285
<212> DNA

<213> Glycine max

<400> 33110

agctaccaag ttttttagtta ttctctaaac tgcctaagcg agcgggaaag tctataacaa 60
 ctcccggttg ccatcggttt ggggtgaaag tgggtgaaca aacaattaat gcccacttc 120
 tccacaaagc ctccgaaacg catatatcaa gccgtagata ggatgcctaa tttaatggtg 180
 atgttttaag ggctctaaat cagatcaaat ggcgcatgtc ccatctttta tggatcaaat 240
 cactggacaa cacaggactc atctatctct acccaacttt gctat 285

<210> 33111

<211> 627

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33111

ggggnnnccg caggtagttc atttttctat tgtacnnnt cnnnnanaan attcatnna 60
 cnnnacggn nanncacaan nnnngagcan ngaggggaaa aaagagagca nggacgnata 120
 nactttancg cnccananc accacacgan acncgggga gcggggaaac cagcaccaaa 180
 gaaaacgaga accnccaaac aacgagaaaa acccgacgca aagaacgaga acacaagngc 240
 gcccaccccg gagnaacaaa ggaaaaggga ccgnggcaaa ncacaaccaa gccccgggc 300
 gcgaaggagc acagcagcca cgaacaaaan cacngcgacg cacaanagga caagcccgac 360
 caagaagagg acccgcgca naggaacang cncagaagcc cgaagaaggc aannnccaag 420
 caggcccgac acacaaccag caccaancc ggacaagccg agncgaaacc naacgggagc 480
 gcaaanncag cacagaaccg ccagcaaaa anacgagcgg cacgacaaa cccggaccca 540
 ancagaccac gaannnaaag nganaggcgn cgggaccgag acgagcacc gggncggcca 600
 cgacgacgca ggcangaccg cacgccc 627

<210> 33112

<211> 337

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33112

agctntncac tcttatgtct gnattaagcg cataatatat cgagaanggc ggaattgac 60
aatggaagct cttgagcaat tcaaagatc ataactgtta actccgatgt ccgattcacg 120
cgcataatat atcgagacat tcgaaattga acaatggatg ctcttgagaa atacaaatgg 180
tcataacttt tcaactctgag gtccgattca gactcatcat atatcaagac cctctaaatt 240
aaacaattgg agctctcgag aaattcatat ggtcataact attcactcgg acgatcaatt 300
caagcgcatc atatataagag acgcttgaat ttaacaa 337

<210> 33113
<211> 544
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 33113

gcaagcaggt gattcttctt tggtacttgc gacacttaat tactaagctt gcatcgtgct 60
tttgctagcg gaggaatat gactaccatg gctatgacca ccgagagcan agagnggagc 120
cgctgangga ctacaaagct ctctcttgtc aacatacgat cgggtgtagaa ttattagcca 180
gcttgagcgc gaacttccat agaaacgttc agatcgtcaa gatatacctat gagctaacag 240
tgatgcactc ctagccgac tatgtgtgat gagactccat aggacctacg ggagcaaaga 300
agtgagattg gatttacatc acacacgcct ccgtggctga atatacatac ctgcatactt 360
gacgcctgta tgggtacctc aaacgatacg tgctgacatc ttggatattt taagagccac 420
gcgtagtcaa actggaccat gacacattgc tatctgcctt agattgacgc tctgtgaag 480
cgttattgac aattgtatgt ctctaaagc cccggcgagc aaaacctagg ttcctttatt 540
gaaa 544

<210> 33114
<211> 346
<212> DNA
<213> Glycine max
<400> 33114

ggagaatgtg aatgtatgta tacatgattc tgatgatgtc aaaagaagaa tcacacaaga 60
ctcattttgc ttcaagatta atacaagatt gtttcaacaa acaaagcctc gattcaagat 120
ttcttcaaga tcaagccttg cctcacaatg aaaggtttca tgtcattcaa ggcacatgta 180

atcgattacc aatggtttga aagtgtgtaa tgcattgcac atcatatgta atcggatacc 240
 agagactctg aacgttggga attcacattg tatatgaagg gtcacagcta ttcacgacta 300
 ataactgtgt aatcgattac actaattcta taatcgatta ccagag 346

<210> 33115
 <211> 196
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33115

atgagaagct agagcttanc tacatacccc ctatagtagc taaactcacc cctatgccag 60
 aaaacatgac aatataaaac aagtgcctac tacaaagact acttccaatg aatgtgagtt 120
 tattgcaatt acacaatcac aaaatggggc tcaaccttgg tggggtttct ctctttggtg 180
 attcactcaa tatgga 196

<210> 33116
 <211> 364
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33116

agcttgtaat attaattctc cttcagataa cctctcttag gtgagaggcc atgaatgggt 60
 ntatatctaa cgcaccttgt aagcaaaaga atctccagtt tgaagtgtag acaatgcaca 120
 aacccaattt actgtatcct anaatttact ntaattatga agaacggtgg tgacaaggat 180
 tgaattcttg accacttggt cgtaaaatcc ttggtaagag ccaactcttc taaaagttta 240
 agctcttagg tagaggttta ttcatttgta gcactaaatg atgtttataa gtcttattta 300
 tgggtgcatat cgatgttggt aactacatac cgaaaacttg atttggtgca nacattcttg 360
 atta 364

<210> 33117
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 33117

[illegible]

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<223>      unsure at all n locations
<400>      33118
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<210>	33119
<211>	354
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      33119
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13792

<210> 33120
 <211> 312
 <212> DNA
 <213> Glycine max

<400> 33120

tttaattgaa ccaaaatatg tacgctttta ttattctttg tattgcaa at catggggata 60
 caatctttat ttgtaatgc cataaagcca cttgtatgtt cttcagtaga cattgaagta 120
 caggttctat ttttctcaca attttcattg aaaaaatcta cgtttaaga ttaacaatc 180
 attgattatt caatgagtaa aatcatctat ggagctaaga taatgtatat tgaaatatat 240
 aagttcaaca cttacagttc caatgattgg agtcccaata ttaacaatta ttaaagtcaa 300
 atcacacaac tc 312

<210> 33121
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33121

ctcagctata caattataat aaaagaacaa tgacaatnga atattctata catgtttcct 60
 ttgatgagtc taatgccatt cttccaagga aggattttct aaatgatatt tcagattcct 120
 tagaagatac acatattcat ggaaatcatt ctaaagaaaa agacgaagga agaaatgagg 180
 attctcaaga taatggggct agaggaaata atgaacttcc aagagaatgg anagcctcaa 240
 gagatcatcc cctcgacaac attattggtg atatatcana aggggtaaca actagacact 300
 ctcttaaaga tttatgcaat aatatggctt ttgtatctat aattgaacct aaaaatataa 360
 tagaagtc atgacatgat acatggatca 390

<210> 33122
 <211> 332
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33122

agtatccttt atatgctttg tcttttattt ctctaaagta atgatcgaat atgccaaaat 60
 tatectatgc gtagaaaaca tgtgatttct tctcaaaaaa ataaaatcac aggggttagct 120

<400> 33125
 ntcaccagat catataagat aaangcattc tttcatctgt tatatatacct ccacaatgtc 60
 aaattctctg cctatatatt caacctttcc atcactggca caggagtga tcttcctcca 120
 tgggtgcaata ttaaagttat attgtcatcc attcctcaca atcagaaacc acanacattg 180
 ccatatatta tgaaataaaa aacctaactc atactcaaac ataagcacat cacacaacaa 240
 catgcaatgt catctattaa aatagagcat catcaatgaa aat 283

<210> 33126
 <211> 415
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33126

agcttctctt gtgtcatttc ctgcgaagge aaacatttgg agagttagtt ntaccaagaa 60
 atgctattct taaaacgaaa atggcatatg acctccccca ataacacaaa catcaatgta 120
 aatttagagc gaactcatgc gcatacttcc tttcgaacat tcaactgcac cagatattct 180
 tctaactaag aaaaatgcac ccaggcacaa tcaaggcacc ttcgttacct agatcactta 240
 tatgtacttn caaggtgtat ttgctaccta catcacatgc acttnctttg ctaaantnac 300
 atacatgcat actcaaagca ttntggctac caaaaattgc atacgtgcac attctggtat 360
 ttctaatacc tatacatata caaactntgt gatgaatctt ggctacctac acaat 415

<210> 33127
 <211> 483
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33127

cgctntatgt gatgaacatt ggttaatggt tatgcatgaa gagtttattc aatttaagag 60
 agatgatgta tgggatttag ctccataaacc aacctctcac aagtcaatcg gaaccaaag 120
 ggtgtttcga aacaaacttg atgaatctga catcacagta aagaataaag caagattggt 180
 tgcaaaagga tacaaccaag aagaaggaat cggtatgat gaaacctatg ctctagctgc 240
 aatgtagaa gctataagat tactactttc atttgcttgg attatgaatc tcagaacttt 300

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

<210> 33130
 <211> 280
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33130

agcttgacag acctgcattt ttacaccgac cgagttacca ctcttgacac tagatgacac 60
 ttgtccatgc ttggggggtc gaccgactcg tcccccttct atttgtcatg ctacatgaca 120
 ctacgagaca cacatcaacc ctccatgtca gccttgatgc aagagcatga acgcctagcc 180
 catagcagcc cgactcccca actaacaagt tatctctaac ctcttattat ntgaacataa 240
 tggcatccct ttatctcttt atgggtattc aattgtctat 280

<210> 33131
 <211> 545
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33131

nnnnnnngcgg ggnccggggn nnaaattccc cnanngatnn atngannann aacnncnacn 60
 ggaggggagag agggatagag agagtgagag tggcattgaa attgaatgat aatacggaga 120
 gaaagtggac gtttgaagtg tgtctcacia gtttctcatt catcagagtt gtgacaagtg 180
 ttacacatgt ctctatttat agcctaagtc acttacctaa atgggaattt cattttcatt 240
 tcatgtgaat ctaaaggaat attncatgaa tatgccaaag gcatcttagc atattccctg 300
 taaatgccac aagcatggaa tgtgtgactc tagcacatgc gaagcttcct tgagatgcaa 360
 cgaaggtagc ttccttanga agcaaggaag aaagcttcct tgagaagcta gggggggggg 420
 gtggaggncn nnaactccnc ggaatacgnn attgtagtat cgtctctcag cctggnggcc 480
 taaatatgtg tgaatacttt tactccaatc ctctgttgg agaattcttc aaataatgta 540
 gtccg 545

<210> 33132
 <211> 484
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 33132

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ggcagatatg ctgcatgaac tganancaca acngaanaag gannngngaa gaganggana 60
ggataggttc tcattaaccc ccacaggaag agggagggaa tacgaaccaa ccacaccccc 120
caaacaaacc gaacccaaag gggcgccgaa caacctgaga cccccacag agcagaaaca 180
ccgcgaccgg cggcccaagg gaaccaccac aagaaaagga ccccgccatc catgcacccc 240
acggccggac ccgcgacgtg aacaacaaa agaagcctac tgacacatcg cggagaaaga 300
aggacgcacc acaccgaagg aggccaaaaa gccccccaaa tgaggccggg agagaaaaga 360
gagccaccac cacgggagag agcgcttaga aacacccaac gccgctacaa caaccgcag 420
agcctacggc taccaccaca cccggctagg ggcaaggaag acgaccccca tataagacac 480
acgg 484
```

<210> 33133
<211> 440
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33133

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agcttagtan atctaattct tatcacgtct ggcttaagac gttaaagaag cgctactaga 60
aggcaacctt naattggcta cgaagaagct ctctgccaag cagtccagga aaggcaccat 120
tgaagagggg tctagtgtgg cccacaagc tgacacaggt tttgacaacc accgactcca 180
gagcgtggaa cattagtagc atttcgaggc cactgagggg tggtcattcc tcaggcagag 240
acaaaggcag ctaagggatg atgaatttcc agatttcctt ggaggaggcg gaaccataca 300
atcgaaatca ccaaacttgt gatttatcct tcattactgc tttcaattat tctattattt 360
tggtatttcc tttgtgatat aacattatct gcttccaatt gttatgccca ttgtgattaa 420
actgaacatg cagttatctg 440
```

<210> 33134
<211> 503
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33134

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 gcgaggcccc ttcggtttgc tgtttcattt tacggctttg gcctttgttc ttccttgcca 120
 gatacatttc tctatgtaca cttgccgtag gctataaccc taccctaaact ttccggcggt 180
 ttctttctgtg cctaccangc ttggtcttgt actgtggtct tgccaaaacc aatctatggt 240
 tggaaccgta cccaacatta acccggccac catcattgtc gtatcaaaca agaaagcttg 300
 ccagagagga atctacgaaa gcatgcttac taccttaacg attggaatc atttccatga 360
 cttctcgagg cttcacatat ggcgagagaa ggggaactac angacgtctt ctactgatac 420
 tatacaaagc tctcactat aaactcaact ttggtggatgt aatggaacac tcaactgatga 480
 tcatggcccc aaataacaat gag 503

<210> 33135
 <211> 285
 <212> DNA
 <213> Glycine max

<400> 33135
 cattggttac tgtggttcgt tggcaaatga tggttgtgat ggtggttggg gtgattgtta 60
 acggcggaag taaggacta caacttcgat ctagtttttt tccgtataaa acttacaagt 120
 taataatccg tatattatat aaaacttatg gattatcaat ccgtcaatta tatataacct 180
 acggattatc aatctgtaaa aagacaatcc atatgaatta tgcgaatttt cagtaatccg 240
 tatagtccat acggattctc aatccgtata aaccagtgtt aaatg 285

<210> 33136
 <211> 527
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33136

gagtnnnan caggggnggn ancctcnggc tagcatgac cccctgnana tcaaanannnn 60
 nacnnnnccc nnanncnan agagagaacc cacacttcac ttgtttcctt tcacaacgca 120
 cagaggggtg cgagtcgaat taaacatgaa tgcattacca tcgatagttg tgacagtatt 180
 gacaccacat ataacattca tctaagacat aggggtgaat cacatctcat attcattaag 240

agataatact gcttatcttg gcttgcccaa acatcttgga atacaaacgt gttaactgga 300
 actacttatg tgggacatcg actctatcat atggagaaaa tattctgtta tcccattaac 360
 tctctcaaga gccgaggata ccgctggcct gtctttggat agattctaac atcgaagact 420
 ggactccatg ctagtgaagc tatccatgat ccctagatac tgtacggcaa gaggtgtaga 480
 gatatacgat gctatgggtg ccaaccatct aatctgcctg gcttccg 527

<210> 33137
 <211> 207
 <212> DNA
 <213> Glycine max

<400> 33137

gattaaagat caatatgcaa ctgatgaatt agtagagtga cctctaatat tacttaagca 60
 tccttgcat aattgctgca aaccgcact tactgcctgc accttgatag aatatgaaga 120
 gataggactt tcaaaatgta ctaatagaga ttgtaattga acacaacaat ttctatgtat 180
 aagatgtgtg atacttagat gtgtatt 207

<210> 33138
 <211> 354
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33138

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 gaggaagagg agagaganat tgaagccgaa agaaagagaa ggatgcgtcg tttgtatgtg 120
 tggtaccaac gaactccttt tactgagaat tgaggcaaca tcggaaatga agagaagaga 180
 aagaggtaga gagagggaag agaaagactc anagaagagg caaagagagg gaagacaaag 240
 aggcagagaa gagcagagag agggaagaag catgaccagt gcgctgcccg atgcgagaaa 300
 gagaaaatca caataacaag aaaaagccta ttaacaactg taatgagaga gaaa 354

<210> 33139
 <211> 376
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

<400> 33139

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atatcaagaa tctcgttgct ggtaatcgat tacaacatc cggtaatcaa ttacaagtnt 120
aaaattcaaa ttcaaaaccc tttttaaaag ttttttttca aaattgtatc ttggtaatcg 180
attacactgc ctggtaatcg attaccagag ccttgatctc ttggaaacac ttgttntgaa 240
gcaaaagctt gatcttgaat taatcttgaa gcattgcttg tttgggtgaag caaccttgta 300
tttatcttga agcaatgttt aacctttgaa tgttngttga agaattctga aaacaacctt 360
gtttgattat tctttg 376

<210> 33140

<211> 326

<212> DNA

<213> Glycine max

<400> 33140

gagctctaga ttgaaagagg agaatacttg ttttaagagac aaattgacaa cgtcagaaga 60
caatgtcaag acattaaaaa atgtcatgct tgcatacatc caaatgaagg aaggatatat 120
tccttttgag ttaggtgcta tgtttggtca taacactagt aatgtaggtg taagtacttc 180
tcttagtctt gtgttacatt tgatatatta ttaacattcg acgtgaaaag attgttattt 240
cataccatga atgaagtgga cataatgtgc caacaccaag aggaggctca tcattagata 300
cgaatctcca tgcaacttga catatg 326

<210> 33141

<211> 499

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33141

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cgtcagctct ataggatgcc atatacctta ctgctatctc cctanacaga ggcgcggaaca 120
atcgattgtc tcatcgga caccacagag actgacaana cccagccttg ccgcaggctt 180
atcaggtgcy tactcatcca gctttggact gggcgcatat agcgaacaag ctcgagcgat 240
tgccctgtcct caagaaaaca ggctgaacat cattagggca cgcaccttaa cttctgcgac 300

acatgaagct ggattgcaac cgtactgatt acccgatgtg aatcagttcg atgcgcctgc 360
 tgggctgccg tagacgttta gagcggcaac tcgaaacttt gtctacatga actataacaa 420
 tgtccttcct ataacttaac tgttggggag gtcactgacc actacaacgt tggcactggg 480
 gaccacaat gatgtaacn 499

<210> 33142
 <211> 275
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33142

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 ccggactctc aaccacttat gatagccgcc gatgatccca ttactgcttc cgactagctc 120
 tetgaccttt cttaacgccg cataccatgc cttgcgaact ccttggagta ccctagcatt 180
 gtggtcactg aaacctcgtg cgatgaaagg cgtgatgctt acgtctgatg gtgctcctct 240
 catgggacat tcttcgcatg aagatagaat cctga 275

<210> 33143
 <211> 516
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33143

gnnccgctga taggaaaagc tgnangtach nntagnanna tctgacacac tatacaccac 60
 tcaaccgncg tgatgaagag tagagggact catgtagttt ngataatgat tcacangacg 120
 acgaacagcc caaagagtga tttcaagatt gactcaaccc ctccaagatc aagtttaatt 180
 tcaagtttct tgaaacagag atcacgaaga ttccagattc tagagacagt tgacttcaag 240
 attcaagaga agatgaattc cagttcagga gaagaaatcc caagactttc ccagggacgt 300
 ttggaaagat tttcaaaaac aaccttgcc tgtcttggtt ccaaagaagt ttcttacatt 360
 ttttaactac agaagtttac tctctctatc catacccccg gcaagttggt ttctagcggt 420
 caccggattg caccatccat cgattccaaa tgggtacctt tacaggggtg ggatccgtcc 480
 ccgtgtttta cttgatttca aacattggga gtgcct 516

DocuSign

DocuSign

DocuSign

[illegible][illegible][illegible][illegible]

DocuSign

[illegible]

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<223>      unsure at all n locations
<400>      33147
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<210>	33148
<211>	364
<212>	DNA
<213>	Glycine max

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catgtatgcc tttcatgtaa gcagaaaata angtgtaatg ctcatgatga aggcttatgg 120

gagaacattc ctatctgatt ggcatttaca taagtaatgc ttatgttatg gtatagttaa , 180
catcattntg ttgcatatth acactctata ttaacttaat ttgtatagat gcaattgcc 240
ctaattgtgtt tattattnta tttgtatagg aacatggcta caccaccaag ctaccttcct 300
cctaatacncc agcttctata gagtctacct ctaggaggac taaacaatgt acacggctca 360
taag 364

<210> 33149
<211> 502
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33149

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gagangccgg accagncgac ccgacgcacg cgaaccacg gtttagttgc caatgcctac 120
cagccaacac aggggaggag cccgaggcac gcaaaataag accacaccag acttcntgag 180
aagaaccatc cgcaagacaa acgagagaca caaccgtgcc aaaaatccca caggagccac 240
agagtagacc gcacacaacc gcaaagggt gcaccagaac ccctcagaaa aaaagcaaaa 300
cccgggataa cgcccacccg catattcagg agcaagcccc tgcggaggag tagaacaac 360
caaagaagca cctccacca cacacgcaa gagcacagca agccaggga aaccgacagg 420
cccgacacaa ggaccacaaa gagaagagcc atcagattaa cggagaaagg gacgcaccac 480
gcgacggcag gggaagaccc cg 502

<210> 33150
<211> 281
<212> DNA
<213> Glycine max

<400> 33150

gcgaatcctg cgctaaaggc gtgatcacga ccatacttgt taagcccaa aagtcgctt 60
aatacgaggt cgctgagct tacttaagcc tataagagga gtaggaagca cacgaaaaag 120
acacaccgag actaagagtt atctaaagaa tacatactat gtctgagcat cccaaataag 180
aaaaatcttt attctatggc aatcattccc gtcattctac ttatttcac taattcctta 240
atctattcac atgacctttt aaagtatgaa gcatgaccat g 281

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agtacagtac	cattcanata	taaaagtggg	cncatttctat	catatngcaa	tnaccaagct	60
gtctggcctt	gacgaggaat	taaaaaggaa	aaattctttt	aatttttagcc	ttgttaaaaa	120
aataaaaaat	aaaaaactg	tactttttatc	ctctaccaca	tagaagccac	tatgatactt	180
aacgagctct	atctagcatt	ttggactcgc	ttaattaaat	gagtaattga	aggactactc	240
taactatttt	ttttttttac	cagcgtctat	aaacattagt	taagaaatta	aaatatatat	300
atatattttat	tataaaaatt	atatgagagg	gtcaaaaaag	tatgaagaat	atattttatac	360
tatctataaa	atatattggt	ttaatttttta	actatgtctt	agacatc		407

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<223>      unsure at all n locations
<400>      33152
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acgtaa	atcg	tatactagca	ctancanctg	nanaacnaca	aacngtgatg	ctgtaagcga	60
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gacttttact	tccgtactgc	cttcggatcg	aacgtcgaat	gctgcatggt	cgttaaaccc	180	
tgtccgtggg	aaaggttcaa	agttgaacct	aggagctctt	aactagtatg	acacacctac	240	
ttagacgaca	gcagggataa	cttaccacagg	ttacttttgc	attttgagg	aaaagtagat	300	
gccatacctc	aggacntgcg	actatgctat	ttctgacagc	atgtacagaa	caacactgta	360	
cctaatcgag	atatcacgtt	acttaggagc	tcgcatcccc	gcttcaattg	gacgcggctc	420	
acgactaggc	tgtacaccat	cc				442	

13806

<223> unsure at all n locations
<400> 33153

cggacgttna acgacgatga ctgangncan nnnnnngacc gggagcgaac gaggaccgac 60
cggacgaagc actttcattt ctcaaccgca aacagaaagg gcggggcgca gaacacccaaa 120
cagaccccc agaggcaacg aaagggggag gaaccaacgg cggacgggga cacgccaaan 180
cacagaagcg acaagacaga ggagaaacgg caccgagaga aaacaacaag ccgagcagca 240
accacacaaa ataacacccc cacgcagcga agaagcgcg tagcccgacg agagacccaaa 300
aaagccagcc gacggcgcac gtgtaaaaca agacaacgag caacaacgac aacacatgct 360
cagcaggaac ggaagcaaag aagaacacga gaaaaggacc ccgcgcctaa gaataaccaa 420
aacaacacga cggcccggcc aggcgacagc cgcaaggaaa ccgcggcn 468

<210> 33154
<211> 451
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33154

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gctaacagcc gccgccactt ttttcttcgt tctggacaaa cagggggggg ggatgtcgga 120
aatccatata tctctagtca tctcctcatc atagacgggtg atccatcctc acacaagctc 180
tattgatgaa ccaccatcat gagactcgat ctctagaaat accctaacgg aaacgtctcg 240
ctctacactt gaagaccac accgctgatt tctcacgcat taagggtacaa actgccctag 300
catgtcatat gcttgacatt cgtagacta ctttctcact atgttagtta ctgtaaacac 360
ctgtgctact aaactattgg cgggatggca aagtaaacgg actgggcatc aatgaacact 420
ctacggaaca gttacttacc ataaccctca c 451

<210> 33155
<211> 447
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33155

caccttatct gggggagcct aattctaaat gtngtatttg tgctcggggn tatcattcgc 60
 tgaggggtga ttatatttat atatttatcc ctatacattn taaaattntc attnttattt 120
 ttattttttt atttctcaat ttataagtnt aagatgacat ttggtatttt attaattnta 180
 cttataatgt actaatgttg atacgactgt agagatatta ccaatcctta tttatttaac 240
 ttctccatga agattgtaat tatcaatcct tattacttta aatgcctatc agtccatttt 300
 cctttntgca aatttgaatt ttcgccattg gctaaaaact gtactagaat atgaatgaat 360
 gtgaattgat aatgggtgct agaaaacatt gtagtgcaga cagtagatgt ggcttggttag 420
 ctaaaagatt ggactatatg tatatat 447

<210> 33156
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33156

agcntttcnt ttagnatana cttccttga gaagctaaga gctngaggct acaccacacg 60
 cccttattaa tggactacag cttaccttcc tctggagata gcttcctttg gagaaatttc 120
 cgttgagaaa gcnnttcctt gagaagaatt cctagagaag ctatgagctt atctacacac 180
 acctctctaa tagctaagct cacctccttg agaagagaag ctagagccta gctacacacc 240
 cctcataata gctaagctca ccctatgaca aaatanatga gaatacaaaa gaagtcctta 300
 ctacaaagac aactcaaaat gccctgaaat acaaggctaa aacagaatgg ccaaatataa 360
 ggcccaaaag aaagaaaaac ctattcaaatt atttataaag aagagtggat ccaaccttgg 420
 cccatgggct cagaaatcta ccttgg 446

<210> 33157
 <211> 318
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33157

ctatcatgag taaagatcgn ttacccactc attaatacaa ctagcttatt gctagcaaaa 60
 tcgagtcata ttcatagtcc tgatgctttc aatgttaatt tccttattgt ggtaatgctt 120

cttctgatga tgagatggct tttgatctga ggatgaatct tctccacccc aaaaaggatc 180
 ctgcagtgca agattgagca nagttgtacc aaaaaagtca tccgtgtcca tattttaaca 240
 aaggagtaca ccttttccaa tggaaacgac cttctaagga gactgcattc cctactagca 300
 atgtgttgaa tgatattt 318

<210> 33158
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33158

aggatggggtt gttgtatgct ganactggaa aaccanacnn ccgtgtccan agagcgaccg 60
 agcagcaact tctataattc tacaacaac gggaggggtg gaaagaaaat acacctattc 120
 ccataatcta gcagctcgca gcaactgaag ccttgccaca tataggatgc gaatcttcga 180
 gaatcctcac acaagttgcc taaaataaag gttacactga cccaacactt ataactccaa 240
 tggccaggaa tagacgcta ctattgaaag catagactag aagtaacaca atctccaagc 300
 tcacactgga gaatatgcat atgaactagc tcatctaaaa gactaaacca cttgaatatt 360
 cataacaaaa aagaccacc tgatcttatt ctaatgaaag cn 402

<210> 33159
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 33159

agcttctgat ggtgccctat tgtgtgctgt tttttttttt agacaaattc ccttagcaat 60
 ccccaaaatt aaggacttat cataacttga aacccttatg ctttcttaga accctaaaac 120
 aagggtcaagg atatcaaaat taagctcagg ggtttattca aacaaatcat tattactttt 180
 ggctcaacag ggggtgcaagg gataaattca tcacagggtta gcttttttggc tgagtggcta 240
 aaataaaaag aaacatggcc ttgatcatat ccaccttatg taaataatct aacagtctaa 300
 gaatgatgca aaattaataa tttaaaaaca gacgttctct cataattaat gtcacacagc 360
 tcaccgggac aagataaagt tatcggctta ccgaaccatg atctc 405

<210> 33160
 <211> 356
 <212> DNA
 <213> Glycine max

<400> 33160

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 cgtctccctt tgccaaaaag aattcgacaa ggactaacca cctgaattct ttttgtgtct 120
 ctcttctccc ttttctaaaa gaacaaagga ctaatcgctt gaattctttt gtgtctccct 180
 tctccctttt caaagaattc aaaaagacac agtctgagaa ttcttttgat tcttcccttt 240
 cccttaaaca aaagatttca aaggactaac cgctgagat atcttttggt tccccttcat 300
 aaagattcaa tagactaacc cgctgagaac tttgtcttaa cacattggag ggtaca 356

<210> 33161
 <211> 382
 <212> DNA
 <213> Glycine max

<400> 33161

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 gttatctttt gtttatccaa tagtacttgc ttatagtatt aaaactttct tatacctttt 120
 tttttttctg taaacttata tatatatata tatatatata tatatatata tatatatcaa 180
 agtctattga gtgtgtggga cactctacaa ttattctcaa ctacatataa catgatcatt 240
 ttatgttcat tgaaaattgc gtcttaactt gattttcatg attgatgtta attatcactt 300
 aatatcttgt atagtataaa aaatatctac ttaaataaat tggcatgacc gttatgatcc 360
 tttaaggaaa aaaaattgac cg 382

<210> 33162
 <211> 403
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33162

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 atgcaaccgg ctgctatctc tttgtggaca caagagcgta gccggagtga accaaccgtg 120

ttgtaaaagg	acttgcata	cttcttactt	tttgccagta	ggccgatctg	ttgcattcct	180
tctgaagac	acatatcaat	tttctttatt	agaacacatt	atcctatccc	actaacccaa	240
ataccaaaac	ggaggcatgt	aaccctacat	ctattaaaaa	aacgcagagg	tgccatcatgg	300
gacatcttac	taccctggag	gactactagc	cgcaaacctt	caccagccat	atcttaaagg	360
taccqgttta	tgaacttcag	actgatcagc	aagacatatc	gaa		403

<210> 33165
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33165

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 ataggttgga cctcccagaa gagtatggag tcagcaccac ttttaacatt tctgatttaa 120
 ctcttttgc aggtggagct gatattgagg aggaggaact aacagatttg aggtcaaadc 180
 ctcttcaagg ggaaggggat gatgcaatcc tccctatgaa gggaccaatc actagaacca 240
 tgagcaagag gctccaagaa gattgggcta gagctgctga agaaagcctt atggttctca 300
 tgaaccttat ggtagatttc tgagcccatg ggccaaagtt ggggtccaatt atctttgtac 360
 atattagact aggatgtcat tatatttggg ccttgtatat anggctccat att 413

<210> 33166
 <211> 278
 <212> DNA
 <213> Glycine max

<400> 33166

tctcattcgt gaaagttaca acaagtgtta cacatgctta tatttataga ctaggtagct 60
 gccttgagaa gctctcttga aagaacttcc ttgagaagct tctttgagaa aacttccttg 120
 agaagctaga gcttatctac acacacctat ctaaaaacta agctcacctg ctggagaagc 180
 tttcttgaga agctagagct tatctacaca caccgctcta ataactaagc tcacctactt 240
 gagaagagaa gctagagctt aactagacac ccttataa 278

<210> 33167
 <211> 419
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33167

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 acgcgggtgt tgaagagacg gcatgggcat ctcttccctt cctttntgcc cgtgttgccc 120

cgattctttt ggcattcgcg nttgtggagg acacgtaatc aaactttcct cttttcaatc 180
 caacctcgat tctttccccc gcaaacacca gatccgcaaa gctggatggc atgtaaccca 240
 ctagcttctc atagtagaac actggcagag tgtctaccat catggtgatc atctctctct 300
 caaccatggg aggagctact tgtgccgcca aatccctcca tcgctgcgca tattctntaa 360
 aagtttcacc ctctttcttg aacatattct gcagttgagt acggtcagga gccatatca 419

<210> 33168
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33168

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 tataggaatg tcattatctt cacagacatc cattaccaca aagtctatcg aaaagataaa 120
 atgtttactc tgaccaaacac atctttaatt actctgtatg gtctggtaat ggagcaatca 180
 acaagtngta aagtcacact agtgggcatg atctccaact ctcccaacct tctgcacatg 240
 gagagtggca ttaagttaat attggctcct tggacagagt ggcatttgct gtaaagcttt 300
 ccaagggcat ggttatttcc agtttctga aatatctaan aatcttgcaa at 352

<210> 33169
 <211> 403
 <212> DNA
 <213> Glycine max

<400> 33169

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 acacacatag actagactac gctgtcacat agactatgct aggtgtctt tcccccttt 180
 ctctctctta tgctgtgtac tctataaatt gtaagctgaa acatgaatat caagagtcac 240
 gtgagtgaat tttccttaca cttaaactca agtgtgaatt tgtgatgcct tgcttctgtg 300
 gatcggcgcc tgagtttctg tatgatgggtg tttcttttaa tcccccttgc ctatatcctg 360
 ctattgtgtg tccatgaaga cagctgcctt tgcactacct act 403

<210> 33170
 <211> 315
 <212> DNA
 <213> Glycine max

 <400> 33170

 ccgtgatgtt ctcgtaagag cgaacagtga aatacaggat gaatccttgc ctectcgggt 60
 agtttgagtt tgtatgagac ttggcccaca cgttcgatta tctgaaacgg cccaaagtat 120
 cttttggtta gttttgggtg tattgaacca actacggtgc gttgccggaa gggacgaagc 180
 ttaacgtaga cccactggcc tatgctgaag gtgacgtcac ggcgcttggg atccgcgaat 240
 ttcttcatgg tgtcttgtgc cttttgaaaa cgatgttgta acttccggtg gatctcttga 300
 cgcgagtgta gcatg 315

<210> 33171
 <211> 414
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33171

 agctnccatt gttcaattnt gttcgtctcg atatattatg cgcctgaatc gcacatccga 60
 gttaaaagtt atgacctttt gaatatctcg agagcttcca ttgttcaatt tcgagcgtct 120
 caatatatta tgcgcctgaa tctgacctcc gtgtggaaag ttatgaccat ttgaatttct 180
 cgacagcttc cattgttcaa ttctgagcgt ctgatatat tatgcgcctg aatcggacct 240
 ccgagtgaag agttatgacc atttgaattt ctgagagct tccgttggtc aatttcgagg 300
 gtctcgatat attatgtgcc tgaatcggac atccgagtga aaagttatga ccattttaat 360
 tgctcaagag cttccattga tcaattttgt acgtctcgat atattatgcg cctg 414

<210> 33172
 <211> 375
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33172

 cagcagaatt tagtaatgac cactaacct agaattatta tattctattg ccattaacct 60

anggaattaa aaaaaaaaaa acttaatggc tgagtgtaac tgaaatcgtg gcaacaaaaa 120
 gtcacccccca acaaccaaca agtcagccac catttggtct cccaaaaggc tgatgcctaa 180
 gttgccaatt gggcccttat tacaacttga actaaaccta actaaagccc ttttaattga 240
 ttaacccaaa acatattttt ggtcaaccaa ctttacaagg attgggacat tatttagaca 300
 aactaaacac tctaacaatt gagacaaagt ggtgtcattt aatcctcctt catatggggc 360
 atgatacaac tcaca 375

<210> 33173
 <211> 380
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33173

agcttttnatt tcgtccttca agatcatgcc tttgacccat gatgattcct ttcacctctt 60
 tggagcttga gctcactatt gctgccctat aaagcccctc aaaactttgc tttggtcgtg 120
 ttcttccttt cgggccttct tggtttctcg ttccaaggct tcagcgggtg ccatattgac 180
 gtcccttagt tcatcact cttttcagac tttgatggct atggacttga acttctcttc 240
 gactaccag gctctttcaa gctttgcctt tagggttgta cctcatcact ttcttcgaa 300
 gctttaacct cgtcatctct catagtctnt agatgtggga gccaatccaa tccttgtgtc 360
 cggtctctta gccgcttatg 380

<210> 33174
 <211> 375
 <212> DNA
 <213> Glycine max

<400> 33174

tcacatgtgg tactatgtgg tggtcgggag atggtgcaca acaagttgtc cacatccaca 60
 aagcgcgcac aaaccaccca tccctgttg cccacctcca actgagctca cgtactccca 120
 cgtagcccat atcctttttt ctctcaacac cgggtcccca tcaatcctcc caagctttcc 180
 caacatcaaa gcaaaacaac attcaaacag cacaagctat cacagccaag caaaacagag 240
 cataggcaga atactctgcc aaaacaccaa ccaaatacaca gcttttctca cttaaagacc 300
 ccagtaacaa ttcttctgat ccaattcggg aaccgttgga tcgactcaaa attttactgg 360

aagtctataa tacat

375

<210> 33175
<211> 125
<212> DNA
<213> Glycine max

<400> 33175

ggggtttctc tacgcgcagt ggctttttac gggggcgcag gcagaagctc agtagcaggg 60

catgacgggg ggaggcgcca cgggctaagc agtgcggggc agcggggagg tggaagccgt 120

gaaag 125

<210> 33176
<211> 416
<212> DNA
<213> Glycine max

<400> 33176

agcttttatg attaaactaa gttaactaac ctacggttaa aaaaaataa aaacaacgtt 60

aaaggaagct tacttggatt gctgaaattg gatgcaaaga aagaagcaag gagaacaagc 120

aaagagtgag agcacattgc agagaagaag caccaacgaa atgccaaaaa tgtagtttaa 180

aagcaciaat gaaaatgtaa ctgccaaagg cagctatgcc ttattgtttg aggtttcgaa 240

tgccttgctt agcgcaccaa ctgcgctaagc gagcatacat aacgtttaag attccaaaca 300

cacgcactta gcatgcaaac tcgcttagcc caatgaaaaa attcaaattt tccagagaag 360

actttgggct tatcgtgaag agtcgtcgct agcgaataat catgctcctt aaatgt 416

<210> 33177
<211> 117
<212> DNA
<213> Glycine max

<400> 33177

tcactgagct cacgtctccg cgtacccata tctcgttctc tcacaccggt cccatcaatc 60

tcccagcttc ccacattcaa gtatcgacat caacaacaca actatacagc caaaaac 117

<210> 33178
<211> 51

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33178

accttgctgc cttgcgtata atatttgccc atggttgaaa cgggtggcgaa n 51

<210> 33179
 <211> 413
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33179

agctttatatt nttatcgggt gttctccctt tattttgggt tctaagtttt cactactaaa 60
 aaagtttaaa ttgttttggt ctgctggagc ttctacacct tgcattgcat tttcgggtta 120
 tatctgtatc attggttaat ttttaaaaat tattcttttc cagcccaaaa gcttaaacct 180
 gtcttttggt tttttaaaaa atctaacatt tcgattttga aaaccaaata tgtgattttt 240
 atgtctgttc cctccccagt ggattttctat attgtgttct tgggtggagga acgcactaaa 300
 gctgcgggtt ttatttcaaa actctatgag tacacgttcc ttttggttgt gacttctcac 360
 aaacatctct aatgattaaa gatctttaca tgcatatatg tatagttata aat 413

<210> 33180
 <211> 374
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33180

ctagaganag ctacatgaag ctgcctcggg aaaaactggt gttcttcctt cgtaaatcgt 60
 tggatcttct cgaaatttgg tctacaactt tacaagacac ttttccatga tctgaccgtt 120
 gagatctttg agaagatgtc tggagtgtgc tcgaagcttc cgttccccgag agcatttctt 180
 atttaagcac ttcagccttt gctttcgtgt agcataggaa aaacgctatt tcttcttctt 240
 tctttcttcc aaagccattt cttaaagttcc aagcactttc tccatcacc acagccacca 300
 ttagccacta caaacatca ttgttctcca ttgaaacccc acaccgagag gaacccttca 360
 accgaagcgg agtc 374

<210> 33181
 <211> 363
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33181

tatcttgatt gtgtgtaacc caccattttt atagtaaaac actggtaatg tgtctactat 60
 tattgttagc atttttttct ccgtcattga ggtgccactt gagctaccag gtctctccac 120
 ctttgggcgt attctttgaa agatccgtgc ccctttttgc acatgttcta tagttgcatc 180
 ctatccataa ccatatcaaa attgtactga tactgcctaa cgaaggcaac cattatgtcc 240
 ttccaagaat ggactcggga aggttccaag ttagcgtact aggtaacagc taccctgccc 300
 cctttttgca catgttctgt agttgcatcc tatccaaaac catatcanaa ttgtactgat 360
 act 363

<210> 33182
 <211> 324
 <212> DNA
 <213> Glycine max

<400> 33182

cgccagtaga actggcagca tccatggcca ttactgattc ttcttacaat ttgtttaaaa 60
 acaaaccttg tttggtaaata agttttttaa tgaagcccc tacagtaaata ttgcctatct 120
 tgccctatctt aagacatcct tttcaactct acaggtaatc tgtcacacat ggtttatatt 180
 tattttctga gaattattca atctgcagcc aacccaattc aagaactaag caccatgaca 240
 aatttgctta aaatgtagta ttatatattgc ttttaattag atctgcttaa aacggcaata 300
 gttctaagat tattaaaaaa tatic 324

<210> 33183
 <211> 512
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33183

aaccaacgcn aactgatga ccagtannga cntnntagna nnaacanggn naangngagc 60

tnggatccac gggatccgct agagtggacc tgcattgctt cttgtctcgn tgtattcaaa 120
gcacagaccc aagaggtgtg gtgctgtaac gacaatgtgg ccatagaaaa acaataacat 180
cataaacgac gatgtacttg ggacaatcaa tgcggacca tagtgctgac ccatgcttga 240
ctctttaaca aaatggtaac gtgataaata tcttacagta tagatgttac gtaaagaatt 300
gcatcgagca tgaataccca aactgaagag gatataagt attgctaaac tcatagcctg 360
gaacgcgaaa ttctcttggt aaagaagacg cgattcttat tgaaagagcg ggccgattta 420
ttaatctgat cctgttccta atctatagac cagcactact caactgaccg catgaggtaa 480
tgcattgagg aaatgctaag atatggaata cg 512

<210> 33184
<211> 379
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 33184

agcttttgtt ttctatccat atctggcctt gacattaacc agacttaaca ccgccgacaa 60
tagcgtcaag gaattgttgc accccggata caaaggcttc tttgagtcac cctgcaatct 120
ttcatacaca ggggcatgtg cttgctggaa agactcttgt ccaaggtcac gaatcatatc 180
ctccaagcga tgtcccatth ctacatcaaa cggtttgat tgttgccac tctgcatgtc 240
tgtcatttca ccatgccata tccacgtcgt ataatttctc ttaattccat cacacaacag 300
atgctctcgt atgtcatcca gtatttgcg tcttccattc aaacaattga tgcaaggaca 360
ataatattnt ccatcttca 379

<210> 33185
<211> 270
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 33185

agctcgtatt aaatatgtct ttaaaacact cncaatgaga aagtgaatct ttattccttt 60
attaatatat atgtgagggg taaaggggtg cacataggct tcttgatgaac gactttcctg 120
atgaatgaat agtgcataaa atcctgggtc ctataccgca tatgtctgaa tctaagatat 180

cagcattgga tgattctaaa gacctgtcaa ccatcacctt gcgagaactc atatatgctc 240
tacaagccca ggagcacaga ataatgatga 270

<210> 33186
<211> 296
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33186

acatttgggg ttgctatggc gctctataag tggattccca ttaagttagt atacaagatc 60
atcttgcttg ccacaaactt cattntgggc aacaccaatc actatggcat caagaggccc 120
aagaccggcc caatagagct caaactcgcc acagggaaaa ccccatatcc tgatgttggt 180
caagttgcac acataaaatg tggtaacata aaggtatata caatatggct cacattaagt 240
gactccattg ggtccttttt taccgacaaa tggttagacgt tagaatatta gttttt 296

<210> 33187
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33187

agcttagggt cccattcttg tatctncaat gcaaggaaac atgcatatgg ctaggaatcc 60
aaaatttggt tttagaatta gaanaacatg anaaattagg attttcttgt gagaattttt 120
gctcgaattt gggctgcccc atgtttgata ctttacatag aggtagcgtg gaaaacacct 180
tgcaatagtg tgtatacata ggtaaatata aggagcatga aattcctagc aaagtgtgaa 240
tgattatctt cctaaatgaa tgcgatgatg cacgaaattc ccttttgaat gcaaaagtgt 300
gtgcataatg taaatagctt gccgatatga ataaatgtga atgaaacaat aaaaaanaaa 360
tttgtatgat atatatntca aacatatgt 389

<210> 33188
<211> 421
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33188

agctntactt tatatttttag taatgaccca ctaacctaga attaaaataa cttaatgcc 60
 ttaacctagg gaattaaaac aaactaaatg actgagtgtg actgaaattg ttggcaacca 120
 aaagtcaccc ccaacagcca acaagtcagc caccatttgg tctcccaaaa ggctgatgcc 180
 tangttgcc attgggccct tattacaact tgaactaaag cccttttagt tgattaacct 240
 aaaacatatt ttgggtcagc caactttaca aggattgggc cattatttag acaaactaaa 300
 cactctaaaa ttgaaataaa gtggtgtcat ttagtctcc atttgggcca tgatacaact 360
 cacaaccttg gacttttctc cttgaaactt gggcttgat tcaaatagta tggacagcac 420
 t 421

<210> 33189
 <211> 493
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33189

nccccgccgt gcctgaagca tgcagtacgg acactttngt taccatgctt ccncctcaat 60
 ttcgagcgctc tcgatataatt acgagcctct ttcttacatc cgagtaaaaa gntatgggtcc 120
 gttgtattgg atcagagctt caacattcaa ttctgagcgt ctcgatatgt tacaggactc 180
 aatcagacat cagagaaaaa agttatcgctc gtttgaattg gctcagagat tcaacattca 240
 atttcgagcg tctcgatatg ttacgggact caatcagaca tccgagaana aaagtattgt 300
 cgtttgaatt tgctcaaagc ttcacattca aattcgagcg tctcgatatg ttacgggact 360
 ccatcagaca tccgaggtaa aagttattgt cgtttgaatt ggctcagagc ttcaaaattc 420
 aaatttcgag cgtctcgata tgggtacggga ctcaatcaga cttccgagta agaagttatt 480
 gtcgttgaat tgg 493

<210> 33190
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33190

agctnngatt aagtgttgat gtctccaaga acatacttca tattgcatgg aaatagtata 60

attagacata tggctctgagt atgtctggga attgattgag taattaaaga agatgcatgt 360
taattactat gttgtccatt ctaanatgaa tattaattaa ta 402

<210> 33193
<211> 118
<212> DNA
<213> Glycine max

<400> 33193

ctttgggatac attcttacga gatcattacc gtggaactcg tgaaggcaac tgggtgggct 60
tatctatcct tgtctggagc caatcctaca tcaactacaaa gttctttctg tatccact 118

<210> 33194
<211> 342
<212> DNA
<213> Glycine max

<400> 33194

atgaagaaag catgattttc agcaaagcac agatctcaag atcagaatta agatagactc 60
ttataaaagt gtttgaaagg cacaaatgca tggccaagag agtttctatc ttaacaaaaa 120
cttttcacaaa gcattttact ctctggtaat cgattaccag atgttgtaat cgattaccag 180
tggccacaaa gctttctgga aatgttttcc aagttatttt cgaagttttc aaagctctta 240
tccattacca atgctttaa aaacgctaaaa atgattttgt aagtgtcgaa tcgattacac 300
atcatatata atcgattacc atagcttttg aacattgcac at 342

<210> 33195
<211> 368
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33195

agcttctcta tatattatgc acatgatggt cataacttgt cacacggatg ttcgatattg 60
gcgcatacaca tatcaagacg ctctgaattg anaaccggaa gctctcacia aattcaaagt 120
gtcataacct gtcacacgga agtctgattc aggcgcagta tatatcgaaa catttgtaat 180
tgaaaaaaga acgcactcga gaaattcgaa tggtcataac tttgtcaacg gatgtccgat 240

acacgcgcac aatatatcga gacgctggaa attgacatcg tatgctctca agagattcat 300
 atggtcataa cttatcacac ggtagtccga ttctgggtgca taacatattg agactcttaa 360
 aattgaac 368

<210> 33196
 <211> 416
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33196

agcttgttct ttgattgtat catgcatctc ttcattgacat cgtaatggac atatcattct 60
 tgcataatc attatcata ttcattgacat gcatttgcatt gattcattgc attatcatac 120
 atcttcattt agcatgcctt tgttttgcca attgogtaca ttttcattcat ttgcattgcta 180
 tgttcaactca tgcattgatc tgacacatat ttgctcatgc cttgcattnt ctgcaaaaaa 240
 aaaaaacaga aaaaacgaaa acaaaaaaga acaaaaagaa agtcacaatg aagcatgaaa 300
 gtttacacca cattcttagt taaatgtgtt gggtagcatg atgatagcta taaaccaacc 360
 atgttgggat tataactca tttctcttan naaatgattg anaatcatgt gaacat 416

<210> 33197
 <211> 332
 <212> DNA
 <213> Glycine max

<400> 33197

tttgaaaaaa ttttcagaaa catgtttctt gaagaattgt gacttttgga aatgtaattt 60
 ttgaaatcag tcaactgggaa tcgattacca ttaaggtgta attgattaca catcaacaga 120
 tgtgacttca ttttgaattt tgaaaattaa aacgttttaa gactctggta atcgattaca 180
 agtgttgtgt aatcgattac acaagtttaa aatgatttaa aactgggtta cacaagttgt 240
 aactcttgga atttgaaatc ttaacattat aaaacactgg taatcgatta ctaccttctg 300
 gtaatcgatt tcagagagta aaactctttg gt 332

<210> 33198
 <211> 343
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 33198

acttgattgt tacctcaann ccgcagcgga ggcggagagg atcccatatc tactcgatac 60
tcaatgggag cgcataaacc taaccaaggt ttatcagcct ccatttctac gagaatacga 120
ctcgaacgca acaggtgctt gtcacggtaa agccctgggg cattccattg atcattgtac 180
ggcgtctgaa tcgtaaagtg caaggtctaa ttgataccgg gcaggcagat aatcgaggag 240
aatcgcttgt tgaattctaa cattcacaag caacacctta catggggcaa ttcttgaact 300
agtgacatga ctcacacga ctagcacgta tatgcctaaa cca 343

<210> 33199
<211> 399
<212> DNA
<213> Glycine max

<400> 33199
ttctttgtct tgagtcatca agtgattata aatatgtgac catggcatga gtttcaacta 60
acaatcaatc atcaatcatc tttgaatcat ctatctttca atctttacaa catcatctct 120
caacatcttt caatcaatct ttcaatatct tttctataga attttctaatt tcatttctct 180
tcattcttct aaaagttttt tatcaacact ttctcttcca agaaaagttc tttgttcaaa 240
aacttgtgct attcatcttt ttcatctctt tctccctttg ccaaagaac gaaagactaa 300
ctgcttgaat tcttttgtgt ttctcttctc ccttacaana gattcaaagg actaacgcc 360
tgagaattct tttgattctt ccctttccct taagcaaaa 399

<210> 33200
<211> 338
<212> DNA
<213> Glycine max

<400> 33200
aaaatttatg cttaagcgac atatagggtta aggttaagtg aaaattcatg ttgaacactt 60
tattacatgg tttttgaatg aatttaattg aacttaaattg tatggggatt atgaaattgc 120
tacaattgga ttctacagct atatgttagg aaattcacat ttttaaggat tgatcacgtg 180
tgaaagttac gattcataat gtggaatgcc ttacaaagct tatggaacta ctagggtgggt 240

agctngtggtt gnattttcat ggttgacgtg ccgctttgag gaagaccaga taagatgaaa 60
 tggacgggct gtttagtttg cacggcgtgc tgaaacagcg cgaggagagt ctcaataggg 120
 gtgtgaaaga gatgcancat gagatggatg ctttgaggca gcagttacag atgggtgttga 180
 tgaataactga tgtnttggaa ggggtggttga tggataatca ggggaagaag atggccgggtt 240
 tggagaatcc cgaggatgct tttgagtgtg cggatgtgct ctccaagcat atgcttgact 300
 gtactgctgc tgatttggcg attgaggaca cgctt 335

<210> 33204
 <211> 527
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33204

nccccctggtt gcgagttcan gtagttcgca nanctagann aataagcccc gcggaaaaga 60
 ccgggggcttt ggggcttcat atatataatt tactcttttag anangcaaag ngncnttggga 120
 aagttcgtag tctttgtgct agctctcaag acacgtgggt tcaacggtga tgagactttt 180
 ttttttcttt tttgcangct ggcaagataa gacgaaaaga aaaaacgccc cnttcttaga 240
 tcttttgcag aaattgcatt gcaaattaaa taaatccctc tttgtttcca ttaagaaaat 300
 cttacagtga agaaaagttg aaacatttct cattgggttaa gcataatgct gatgctggaa 360
 gtgatcacta cttcaattac cgaacaacct atccaactaa aaatcttgtg aacatgatat 420
 gaggttatat aaaacatatt tcaatactgc gcagttcagt attgcttgag taccaaattt 480
 accctcggat tatatgataa ccaatatcat ggtctgagaa tgaaaag 527

<210> 33205
 <211> 318
 <212> DNA
 <213> Glycine max
 <400> 33205

ataaatagtt gttaaagtgat tggcttggtt gggcaccact tgtgctaaat taagcgttat 60
 taataaatca tttgcctttt aaaaaaaaaat taaacttcac caggaattga aatcatgcaa 120
 gtcggtgaca attagagcat ctaacatatc aatggcgaca atattgtac tcccttgctt 180

caaataaag gaaaaaatat attctcttaa tctcaaata aaaaaataac tgatttcaca 240
 ctattaaata gcactatccc tctcgaacat ctttgatcta attgatgtcc taattacaat 300
 aactatactt tatkatta 318

<210> 33206
 <211> 292
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33206

atgctctttc tcggcatcat gcattacttt ctatgcttga aacaaaattg attggtcttg 60
 aatgtttgaa aagcatgtat gaaaatgatg aaacttttgg agaaattttt aaaattgtga 120
 aaattcttca gaaaatggtt tctttagaca tgaaggcttt cttttcaaag aaaaaaatt 180
 gtgtgtgcct aaatgttcta ctagaaattt gcttgtttgt gaagcacatg aagganggtt 240
 aatggngcat tntgggggtcc aaaagaactc tagaaaatta caagaacatt tt 292

<210> 33207
 <211> 398
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33207

agctncttgt ttactcgtc ttggtgctca gaaaattcaa annacanac cctcttatta 60
 ctaggctatt tgaattcttt agttcctgaa tgtacaacct tcanattggt gctcgttccc 120
 ctctttattn tctggcaaaa ataaaatcaa tatcaaagaa aacagagaat tgtcatgggt 180
 attattactc gaaccagaag gaataacatc taaacaagtc attntattct tagaatgtga 240
 aaactctgca tatttatgga gaacatggng tatggaggca cgtaagtatg tgaataccac 300
 aagtcattnt ctccaattca agggattgat taattgctct aggaaaaaaa catacatctg 360
 gtatattggt tggtttgag ctgtttggag catttgga 398

<210> 33208
 <211> 225
 <212> DNA
 <213> Glycine max

<400> 33208

tggaaaaaaa ctggtactag tgaattataa cccctgggca ttcttatcat cactcaagtt 60

gctatttgca ttattttatt tgtttcctac taaaaaccaa aatcataaaa atattttaat 120

cctcttttta atcacatcat ctggtaattt aataaacttg actaattgga aatacaatgg 180

gtcctttggg ttcaatatac gaaattttga gttcattggt actac 225

<210> 33209

<211> 494

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33209

agacaaccgg agttttgatg attcttttgn cncncannnn annangaaca ncgggcacct 60

gtacaacgac ctgccgcgtg cgagcacgtc ttagtttttc tcaacaagca cagacacccc 120

gggggcggtta ctttgattaa cacatcccac ctattgaacc gacttttagat gttagtcttg 180

aataatggat ggacttatac tctatactct gtcattgtgt gctttatgca tctaactgt 240

ggaaagtaga ggtttgcacc cattgaaatt gtgggaagcc ctattgtttt attcaaacag 300

aacatatata gtgcttggcg agccatgttg tcggttttcg tgcaccttac aataagcgca 360

cattagcaaa ttctgataga attggctcct acgctctacc aatgattttg cagggtttatt 420

aaaatcataa gagtgcttcc cttgttataa ctatttatct tatccacgta tcttcctgaa 480

tcaggccccg tacn 494

<210> 33210

<211> 299

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33210

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acaagaacaa accctaacct ctttttctgt ctccgatcaa cacaatgtca cactgtatcc 120

gcgtgtgtgt gtttaaagt gcaccttttg ggatactcgg acgcgtggct gcgtgatggg 180

tctgggaaag gaatatcaca caatccaaac tcattggata ataagcccag tctatcaggg 240

<210> 33213
 <211> 276
 <212> DNA
 <213> Glycine max

<400> 33213

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 tgcaggaatt tccggatcat gccaatgtgc ttctgtctaag agatgatggg cccaaccttt 180
 agacatggat gctgtacttg atagcattaa gaaactgtca tcatgtggac tcatcgcagc 240
 aggaggagtc atcttaaaaa aatcaaatga gccact 276

<210> 33214
 <211> 277
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33214

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 tcgttcttag atggccaaat tccccactaa ctcaacaata tcaataatca ggccaatata 180
 aacccttctc attaccacc acctatcaac caacaatgct ctataagtcc acaaatgcta 240
 ccctagatc agccactaga cccacctgcc acacata 277

<210> 33215
 <211> 485
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33215

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 cgggggcagg gagagattca aacaccaccc caccgcccga aacaagnaca aagttnggaa 180
 gacaccacca tcacaaaggg aagataacgc caggagagac ccacaaggac caccgcggga 240

agcccgaaaa aagggaaca acgaaccag agagaagccc cagaaaaaaa tgcgaaagcc 300
 aaaagcccct gcaaggaaaa cgagcccaca caaccacgga aacgagcagc agcggaagc 360
 acaaatgaaa tcaatcaaaa ggaaaaacga aaatacaaaa gagatggagg ggccagccaa 420
 aaagctgggc cacagggaga caaagaaaca gaacgaaaaa caactggcag ggccgccc aa 480
 gcact 485

<210> 33216
 <211> 303
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33216

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 ggtatggggg tttgggagat atgatagggt ggtttgttag atttctgctg tgtaatgatt 180
 atttgtgaag gaacttggtt aaagcttggt gaaattgcc tgtttggatg agttagacat 240
 acccattctg ttttaggggt ttgtgatgat gtttatatgc tgaaattgcc tatggaaact 300
 gtt 303

<210> 33217
 <211> 636
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33217

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 agtgcaagct ttgtacttat gttcgtatga gcaatntnca atgaacgttg catgaaggga 180
 ttnttatctt catcaacagc gcatntcatc atattaacac tatagggtcc cttcactaga 240
 gtctatcgat ttcaaagaat gtngcatcgt gaactagtct gataacatgt ctgctttctt 300
 aaatattgac attttgacat gttagcgaca atagcaaata gataatgtga gagcaaataa 360
 cagtcttcac ttaattgaat gttcataaga ttcgagtaca tgacatatct attatatgag 420

gtacttgcaa gcttgtaaca tgcgtgcata tctgtgagcta aaatgactta tctatatctt 480
 gtttatacaa taatagatta taacacgcat ttctttggaa ttttgtatga tagcatctct 540
 gtacaaagta acgatcgatc cagtactcca gaatgaatgt gtggcttata cgtggggcat 600
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<210> 33218
 <211> 339
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33218

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 agagctaaat tctccaatgg tcatcctcca attgcaactt tggtaatatt caagaaaaat 120
 attatgtagt aattgatttg agaaacatct atanaaataa agtcagttga aagattagag 180
 ataaatttag atttgacct tgattgttga taatctcctt tgctcatgta aaatgccacc 240
 cactaagaat actcatgtat gctgccanac atgnntaggt ctattgatac ggtagaaat 300
 caacattgtt acaaataact ttctgaggta atgacttga 339

<210> 33219
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33219

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 taccttatga ccagaagtgg tacatcaaac cacaagaag gtcaagtta tccaagaaaa 120
 gatgacgact gctcanagta tgcagaaaag ttatcatgat aagatgatga atgatcttga 180
 attcgagggg ggtgatcatg tattcttgag agtcactccc tggactgggg tttgtcgagc 240
 attgaaatcc cgaaaactaa cacctcgctt tattgggtcca tttcaaattc ttaagagaag 300
 ttgccctgtg gcataccaaa ttgcattacc ccgtcttttt ctatcttcac aatgtctatc 360
 atgntgtctc aactcataag tatatccctg atccatccca tgtgattgaa tt 412

<210> 33220

Ughetto

nccacgtga	gagataccaa	gatctccggc	acttagataa	catcctccga	gaacagatga	60
tcaagagttt	gatgaaacta	atatttgaca	aaaagctcca	agtcgggagc	ttttgtgant	120
acaagatgat	gatctcagaa	tcaagaatga	gntcagatga	atcaagacac	ttcaggttca	180
aagganattg	attcagaatc	agaatcagtt	tcagattcag	tccaagatca	gatcagattc	240
agatcagaga	gactcatcag	atagttttaa	aagttttcaa	actggcagcc	atgattttct	300
aaactttcca	agagtttact	cttagtatcg	atccagatat	gtatcatacc	agtacaaatg	360
tttcaaata	cttacacgtg	aatcgaaaac	atctcggaga	ttaagcg		407

<400> 33221

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atgcttttga	ttgagcgaaa	tccatgcttg	ggtgctaaat	atttgaaaaa	tttgatgtac	180
ctcgtgtttg	cttaactaaa	ttgggtgttg	ttgccaattc	ctattacatg	ctcattaatg	240
gtgattatgt	ttttaccatt	caaaatctat	gtttttctga	tatatctatt	ctttctcctt	300
ggcttacta	tataaacaag	tgtgggtaaa	caactaatca	caccactcac	atctctctca	360
atttactctc	tcctcttgcc	tctctggaac				390

<400> 33222

13834

<211> 370
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33225

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 cctttgnctt tgtatttagt atttttttaa aattgaacta acattctatg ctcttaagtt 120
 tggcttcttt tcatacttgt atataaatgt aagggtgtccc ttccataccc ccttttgtgt 180
 tgcttggaca tgcttgtgag ntttttgttt tccttttctc ttnttgataa ttgattgga 240
 catgcttgtg agttttttgt tttccttttc tctttntgat aatttgattg atgtgtgagc 300
 aatgatgggtt aggaggggag aaaaatgtct gaattctgag ctatggcatg catgcacggg 360
 ccccttggtg 370

<210> 33226
 <211> 169
 <212> DNA
 <213> Glycine max

 <400> 33226

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 tggttcaacc ttctttatga gtctctattg catgcaagga aggtggaaga gcacactaca 120
 ggtgcgaatt ttatctgaaa actccatgaa tacagggtcc ttttctttg 169

<210> 33227
 <211> 337
 <212> DNA
 <213> Glycine max

 <400> 33227

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 gcagccattg aatcagtctc aatccaaagc tcctttaaat taagctcca cgcagtctcc 120
 aaagcagtaa tgagcccca aatctctact atcataagag aacaacaacc caatttcctg 180
 gtaaactcgt ttatccaatg gccattacca tcacgcatca ctccaccaca gctagccttc 240
 tcgccaacat ctataacaga agcatcaaca ttgtacttaa aatagcccac tgaggcaacc 300
 aaacaaaaag cctatccgca gaacaagggt gcccatg 337

[illegible]

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ggcgggtgctc tgcccgatga tccgaaagac gaagttgttc ttggaacgcg ggatccaccg 60
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tactaaggcc agccatgatt acgacggtct taccgactgg aggtaggcct gcccatccga 180
cgctaataca gtggacgtac tc 202
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<400> 33229

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caacaggagg	atgtttacct	ctacttttct	aaatgtttcc	aagatctctt	tctctgccta	180
ttacacattt	ttgttgggaa	ctgctcctgg	aaggaatgga	agatggatgt	gctgcttctg	240
c caatctcaa	ttaccacggg	cagaagattc	acctgca			277

<400> 33230

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tatagacttt	actagctcat	tatcaacact	tgctttgaag	cttttaaagt	tacaaaacgc	180
ttccgattct	tctgtataa	tataaccgcc	atgttttctt	gaataatcat	caatgaagca	240
tattaagtat	ctcttacctc	cattagaaaa	tgggttttatt	ggaccacaaa	tatcagaaag	300
caccagctcc	aagacatcta	tagctctcca	tgactcttct	ttgcgatact	gagatc	356

<210> 33231
 <211> 255
 <212> DNA
 <213> Glycine max

<400> 33231

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 tctgtaacaa gaaaaaacca tcacaatggt cagaaattat taagatgcta atcacggccc 120
 taactaaaag aaaaatctaa tcattcagat gagaaaaggg tgaatagtta aacatagaag 180
 aatcgatat cgtgcattag tatacacatt gttagctgaa ttatacattt cctaagggac 240
 tatgtgatat agacc 255

<210> 33232
 <211> 377
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33232

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 cggcagggca gttaattgct acacgagccg aacacggggg ggtacgaacn naaaacaaac 120
 accggacacg gagagccaac caccagagg gagcgccgc agagaggaga agacagggcc 180
 ggacgagaac cgcaacacgc aagaaaagcg gcaaaacaca cgaaacaggg cggccacacg 240
 agacgcagac gggaaaaaag cgagacccg gcgagaaaaa ggggaaagac gcgaacagaa 300
 gcagggcagg cggagacacg aaggaaggaa caagcgcaac gaccggcgac gagggacgca 360
 agtgggaaag acaagan 377

<210> 33233
 <211> 479
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33233

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 cggccangga ncagnaggga taaattgtcc aaacanctaa gtcanattat gagggaaatg 120

ctaagacagg caggtgcggg catgtgtaaa aagtccgata tgacatgatg cctttanatg 180
tagaaatagt tcaattatatt ccaaaaccga aagatgagtc tttaagcatt gatgcctagt 240
ctgaataatt caacattgta tcaggactga ttttactaa taacttaccg cttgtaacgg 300
aatatatgta ggtgttgatt attctaacac acatgtgaac attagtgtac aaatggattg 360
tgactacgaa gagtagacag agcttctttg cctgtgaatt aaaagtgcac tcccaccaag 420
cgtaaacgga ggccttgaac aataccttct gtgatacaac cgactctaaa gtcatacac 479

<210> 33234
<211> 504
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33234

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tgcggtgnat tgaactgcaa gcatgcgaag cgcgattttc tttcttacct tccttagcct 120
cggagagcga gggcgacaac catcagtgtg cccatctcca cttttggatg ctcagtgtac 180
gtaacagagt gccggcgacc atccttgaga aagagcttaa ggactacacg aacctatcaa 240
cgaatcctga ggttcataat gatgtgtatg ttgagcgaaa acaccagcta ggcgcctatg 300
gctcctacct tgccttctct ccacgaccac tgtatataga cgcacacct aactaacac 360
catcgatata accgaactct ccacgaccat gatcaggacg ggtagcact atgtggaaag 420
tgatgtgtag tcgtaaggtc atgggtcatgc taccatgagt caaaaaagtg ctgcgttgta 480
tgatcattac tattggataa gggg 504

<210> 33235
<211> 233
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33235

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gctcatcatt tgtaccccaa attgcaaaag gaaccattc tctgagtcgt gaagcacacc 120
tctacgttgt ggggcttcaa atctcaggaa tgggtggaat gcttctacat gaatctcgtg 180

[illegible]

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<223>      unsure at all n locations
<400>      33236
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aagatgccag	gtggacggct	cgcttcccac	gacgctgagt	gtggaacaga	cctagtagag	180
cgaagcgtag	ctacaagggt	ggggacaaga	ccaaaggaag	gaaccactcg	tggtgagcgg	240
tgggacgccg	tcgcggggta	agaggaatga	gtggatcgct	ggaaggacgg	aactcctaac	300
taggcaccgg	gcgcgtgtac	ggacc				325

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<223>      unsure at all n locations
<400>      33237
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gagccagaaa	atagtccgt	aaattactca	tcaacacaac	ttggggacca	atgataccca	180
ctattggcgt	aatgcttgac	atacgatgac	attgggcctg	gtgcatttga	tggtaccgga	240
gcattcttg	aaagcccgat	tttgacatcc	ttgaagaact	tatatgaaac	atacgaccac	300
ttgaaaaatg	ttgctgaatg	tagccatagg	ttgatcatca	caggtcttat	tggttgtaaa	360
gactaataaa	ctttgatgtg	cttgaaatgg	atgggaggaa	gctatatatta	taaggtcaaa	420
gatactttaa	cgtctaaatg	tgaactggcc	ggtcttgata	tgtttaatgg	agaagtaata	480
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13840

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33238

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gcggtgaatc tgcctgaatg agacactctg acagacaaac atttccatat agacttacca 120
tagcctcaag gacacgctct tgaattagtt cggtgtcctg aggctataaa agagtcacga 180
aaatatacctt tatccgagtt gcatcagaat gttcctcctc ggcatcgact atttctctta 240
agaccgtgag tgcata 256

<210> 33239
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33239

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cagtggccaa ggatgcttgn gagatcctaa aaatcactca tgaaggaacc tccaaagtga 120
agatgtccag attgcaacta ttggccacaa aattcgaaaa tctgaagatg aaggaggaag 180
aatgcattca tgacttccac atgaacattc ttgaaattgc caatgcttgc actgccttgg 240
gagagagaat gacagatgan aagctggtga aaaagatcct cagatccttg cccaagagat 300
ttgacatgaa agtcactgca atagaggagg cccaagacat ttgcaacatg agagtagatg 360
aactca 366

<210> 33240
<211> 251
<212> DNA
<213> Glycine max

<400> 33240

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gcggatgtct tacttccatg actggggtgc aatgtggcag tgtaagacga tactaggcta 120
tctatcctaa tactaagtga tgtcttctga aatgtctcct gtgatgacaa gcaaattact 180
aagaaaaaga actctaata ctgttagcct tgggaaccc aagtttgctc gtaccgttac 240

atagaatggg c

251

<210> 33241
<211> 496
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33241

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cacatatact gcgatcgata gccaaatttt tttttatgag atgcacacaa cagccacctg 120
cttggacgag ggacaagact aggggtctcaa aggacgggtga taatgagaga gaagacccta 180
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cctatcacac aaattcctct gccccaccac cctgtattcc atagaggcca tacctgagtg 300
ctccacatgg tctgtctatc tctctaccga tagcataacc catctcttgc tcttacctct 360
gcaccaggct taaaagaacc gtgggtcctct aatcgtggaa gattccccac acatccgagg 420
gactgtgctt gagtggctct cacttgtagt cggaaattct catggatagc gttaaccctt 480
ggctggggtg cctggg 496

<210> 33242
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33242

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tctcaactcc ctcatcttc cttataaact tttataagcc tacaacatgt aaagggggtc 180
tcaaactctt gaaccatgtg cttgctgttg aacttacatg aacatgttgc ttccaaattt 240
ttgagcttgt tgtcatgtcc tgaatctatg tgctgagttg ctttccttaa gttttttatg 300
ccacaaatga gttctttgca tgttaaaaca taaagtttagc ctaaaatgtc acccaaactg 360
gag 363

<210> 33243
 <211> 433
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33243

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 gcttcacttt aaattaagtt atttaattat atgagttctt gatttaatcc ctattttctc 180
 tccccctttg gcatcaacaa aaagccaaag tgcataagaa atataaaaca tacataaatg 240
 attataatat cactagacat atatcatcaa aataattaag tttaaaactc ataacaatta 300
 agagtaagta aatataatca tgttcagtta tactaatcaa atattaaaag aaataactaag 360
 tattcaaagtc tcataanaat ataaatcatt tgggtaagtc actagcatct tgcagtccta 420
 attctcttct aat 433

<210> 33244
 <211> 426
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33244

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 gcgaacccaa accccaggga gggcncaagg accaccacac acacgcccgc aaagaagaaa 180
 ccaacaacac acccgcccc acggaagaa caaacnacan acaacaacca ccacggggac 240
 gcaagaccna gaggaagac cgcgaggcac ngagcccgc cnggaccgc ggcacagaac 300
 agagcccaaa caccaacaac gagaacgaca acgcgagcaa acggaccgc agancgagng 360
 ccggcgaaca agacggagg gaaggggann caaaccacga ccaaagaag acggaaggag 420
 gggccg 426

<210> 33245
 <211> 504
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 33245

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atacgggggg agatcgatct gacaatacaa ttggacacaa catatgctac attactactc 180
aacagatgca catagaccct acctatagat gcttactagg cctgacgcgg ataaatataa 240
acagagaggt cccttcatgc tacaagcaac gctggaatct gaggaggatg ggctatttct 300
tctaagaccg tgagaggatg accttcatgt gagattatct taccatacgt cgcactagga 360
cgacgagaac gaatacttgc tgatgtatat tctatccatg cagaggtgcc acatcctata 420
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aagtttagag agcaactata gctn 504

<210> 33246
<211> 401
<212> DNA
<213> Glycine max

<400> 33246

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caatgtggcc ttctagtatg gataatcctc tctgtgaag catgggtgacc tcatgacaca 180
tgctacctca acaacgaatt ggatgttgtt gttatcttcc atcaggatct tttgctttag 240
acattgtctg gtgtataacc tttataggct cagctctgat accaaatgat aatggcaaat 300
atcaaaagac ggggtgggtg attgtgatat tataaaattt taaaactta ctcccttgaa 360
cataaacgtt attgcatgat gataaagcac gttaaaacaa a 401

<210> 33247
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33247

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atacaaatca tcctgttga tatgtaatta atcttagttt agtccaagtt cacatttaat 240
cttagtgagg ttcaggtggg atcagtatcc tctcgtattc ggnggtaaca tgtacaatat 300
ataactaata taaagggag tttgattntc tatttaaatt tctctctttt ccttacagag 360
ttaatngtat actccgaatt tctatattat ttttgagcga gcatct 406

<210> 33248
<211> 379
<212> DNA
<213> Glycine max

<400> 33248

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catgccattt ggctaagaag attgtcggag gaacttcagt tgttgcataa ggaaagcaca 180
aagatctatg ttgataatag atctgcacaa gagcttgcca agaactctggg gttccatgaa 240
tgacagtagc atatagatac aaggatcat ttcattagag agtgcattac acagaaagaa 300
gtagaattga ctcatgtgaa aactcaagat caagttgcgg atattatcac caagcctctc 360
aaatttgaag atttttgaa 379

<210> 33249
<211> 422
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33249

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tggttgatg gttaagaaat aagataatga ggaaaagggtc acgggttcga tcgcttttgc 180
taacaagaaa tcaacaaact aaccattaac aaataaagaa agagaaccga agagtttgaa 240
ttatgagaat gtaaaatttt gacacatgta acgttatcca agtatggtga tctcgtgata 300

ttnttcaatg aaggttggcg tatagaggct ntttttttgt tngcctatga ctctctattt 360
 ataaaaatcat atatgtgtnt aatagaggca gataaactcc ttaatttaca aaataatata 420
 at 422

<210> 33250
 <211> 409
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33250

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 tgagtcttga acttatggaa atgtggagat tgtgttgctg aatttatgac tgtatgttgt 180
 cttttgtggg gataggaatc aacaatatgg gcagcggttct tttcacaagt actggcagta 240
 aatgacgcga cggtaaagtt tgagatttgg gacacatcat gacaagagat gtagcatagc 300
 ttggctccga tgtattacag aggtgttact gctgctatca ttgtctatga catcactagc 360
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<210> 33251
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33251

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 tgaatgttga acctctgagc caattcaaac gacaataact ttgtactcgg atgtctgatt 240
 gaatcccgtg atatatcgag acgctcgaaa ttgaatgtgg aacctctgag ccaattcaaa 300
 cggcaataac tttttactcg gatgtctgat tgagtcccg atttatatga gacgctcaca 360
 attgaatgtt tgagctctaa gccaatcat acgacaataa ctttctactc ggatgtctga 420

<210> 33252

<211> 258
 <212> DNA
 <213> Glycine max

<400> 33252

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 tcgcggtata ttacgggact caatcagaca tccgagtaag aagttattgt cgtttgaatt 180
 ggctcatagc ttcaacattc aaattcgagc gtcccgatat attacggcac tgaatccgac 240
 atccgagtaa aacgttat 258

<210> 33253
 <211> 421
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33253

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 tcaagtcagg ttgaaatatg gaagtaacca tcctgcaaac ttggggcaaa agatgaatcg 180
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 cccatatact gcgtaaaaat tcgcaatact tcgactgtac atcattcgca tgcattcatg 360
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 g 421

<210> 33254
 <211> 335
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33254

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 tattggttgt tgattctttc caaaacatgt tatgttcaag aaaaattttc tgtttgagtc 240
 ccaaaaagag ttataatcta taactaaact aacaaaatat caaagcagac ataaactagt 300
 caaaataaac tagccgtagt ttttcaaaca aaaaa 335

<210> 33255
 <211> 98
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33255

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 cgaccctgac actcatttca gtacgtgttg taataccn 98

<210> 33256
 <211> 421
 <212> DNA
 <213> Glycine max
 <400> 33256

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 aatcagacat ccaagtaaaa agttattgtc gtttgaatta ggtctcagcg tcataattca 180
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 tcaatcagac atctgaggaa aaaagttatt gtcatttgaa tatgctgaga gcttcaacat 360
 tcaattttga gcgtctcgat gtattacggg acttaatcag acatctgagt taaaagttat 420
 t 421

<210> 33257
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33257

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 gttagagggtg gtaggtatgtt ggcatgggggt tatggatttg cttaactcta acattaaaga 360
 tagcgctaca cataagatgg ctaaaaatat gaaagaaaaa ta 402

<210> 33260
 <211> 137
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33260

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 atggaaataa aaagcctgat attgacaatg atcctgtgta tgctcattca agtccagtgc 120
 tgggtgcagat gatggat 137

<210> 33261
 <211> 367
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33261

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 atttttcaca agcattgctc ggccgttagt ccaagctcac aacatcacat atccatatcc 240
 cttgatcaag ctgatccaag gaaatttggt tcatgggttg cccaatgaag acccttatgc 300
 acaccttgca acatacatag aaatctacaa tacagtgaan attgcagggg tgccgaaaga 360
 cgcaatg 367

<210> 33262
 <211> 229
 <212> DNA
 <213> Glycine max

<400> 33262

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<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33265

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 tgaactggta taaacatcat gtgtcttata ctgattttct ctttaaaacta acttaagggtg 180
 tgaatttgat ctttgctttt gaaaaaaact gatccaataa cgctttgtta gatatgaaca 240
 aatttgataa atattttataa ctctcagata gagtattaga acggaagact tcattagatg 300
 atgaactatt gattctcagc catctctggc aatgaatgaa cagttcaaaa tgcttntctt 360
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<210> 33266
 <211> 363
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33266

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 cttgaaacac gaatctgctc agagtgtttc agaacagata ggtcttatcc tcttataaag 180
 cacaatcggtt ttcttctctt acaaattcct tggccaaatt acttgtgatt caataaagaa 240
 ttatttgagt gctcaaattg ttcaatctat ctctttcaag agagatttct tgttctcttc 300
 ttcttcattc tgaagaggga ttaagagacc gagggctctt tattgtgata ggattctaaa 360
 cac 363

<210> 33267
 <211> 405
 <212> DNA
 <213> Glycine max

 <400> 33267

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ttagctcata tttatatacct ttggatccct ggtgggatag ctttgaaaat tatgatcata 180
 actaaatttg atatccctaa acaggtggaa aaaatgataa aaggagcgaa caaacaggaa 240
 aaaaaaaaaa aagatagaca cttcttaatg ttttagatta gattgcttta aatttgtatc 300
 ggatgagaaa gtcttacatg aacatttcgc tcttactgtg agaccctaat catcattctt 360
 gcccttaat taggcttgaa tggaagattt gatctgatat atcat 405

<210> 33268
 <211> 290
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33268

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 ggagggagag aggctaacaa aatcatcacc aaatcttcat cttccatctt gacaccacta 180
 tcgcgtagct ccatacagaac aaagtttagc tcatcaagat gtttctttag tggcacacat 240
 tcccttattt ggaggccaaa caaacattat tccataagca acttggttga 290

<210> 33269
 <211> 417
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33269

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 ctacttgctt agagaaaagg tggtagagata ctttgccaaa aaaagagccc aacatcagca 120
 aattagagaa caattacaga agtgttcaag attaagcact tgtagaactc cacttcttga 180
 tcttcatcgc cacagatcaa aatgctatgc actttgccta aaagagttag acaaaagcag 240
 gaaaatacaa cagctattac actattttca ctaccttgac aaaaaagtt catatagtaa 300
 gcacttccgc agttccaaga aatttggtga ggttgaaacc ttcagaaatc acggtttaag 360
 tctgcaaag aatatcanaa ccaagttgtc aagaatatga tcctacttag aattggg 417

<210> 33270
 <211> 390
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33270

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 acatgattct ttaaagtttc caccgattaa acttgctata gaagctagat ttgattttct 180
 atgggtcaaaa tttcttggtc ttgaaccatg aattgtgttg agtttagctt cctttgagtt 240
 ttgtcttggt atttttttgt ggctgaaacc tagaccatta aattcttaca aaaatattaa 300
 agtataataa aacctcaaaa atctagagtg acttggtcac ctattgtaag tttgtcatag 360
 aagtcatgtc tagtcatgaa acttgtcaca 390

<210> 33271
 <211> 408
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33271

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 agtctacacc tgctgcaaga gtctgtggtc tatgttcttc tgcagatcac catatagatc 120
 tctgtccttc tttgcaacaa tctggagtta atgagcaacc tgaagctttt actgcaaaca 180
 tttataatag acctcctcag cagcaaaacc aacaacagca gaataattat gaactctcaa 240
 gcaatagata caatccaggt tggaggaatc acccaaattct gatatggaca agtnctccac 300
 aacaacaaca gcttgctcct cctttctaga atgctgctgg tccaagcaag ccatatgttc 360
 ctctccaat ancatagcag cagtcacaac aaagacatca agcaacta 408

<210> 33272
 <211> 304
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33272

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agcttccatg caagcaacaa ctacgatgca agcctcttgg caatgaacct atctgccagc 180
ttacggcaac tcaatcaact acaacatcag aatgccaccc gcggggggcga cgaccgcaac 240
cgctcctatg gtttcatggg ggagacacat ccaagccaaa cgaactaacc aacttaacta 300
acac 304

<210> 33273
<211> 417
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33273

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<210> 33274
<211> 436
<212> DNA
<213> Glycine max

<223> unsure at all n locations
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<210> 33275
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 <213> Glycine max
 <223> unsure at all n locations
 <400> 33275

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 gttatttttaa catcggtttt tgataaaatc gatgttaaca aatgagcggg gacatttttg 180
 taaataaaact gattttgtta aaaaaaaccc aatgttaacg tgacaatatt aacatccgtt 240
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<210> 33276
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 <212> DNA
 <213> Glycine max
 <400> 33276

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 aaaccattct agtacagtca ttttgaatct catcattaat atcaaacatc tatgtgtgcc 180
 acttag 186

<210> 33277
 <211> 508
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
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<210> 33278
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 <212> DNA
 <213> Glycine max

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<210> 33279
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 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
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 <212> DNA
 <213> Glycine max

<400> 33280

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<210> 33281
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 <212> DNA
 <213> Glycine max

<400> 33281

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 acttatttga ttgaccttct cttgatcttg atctgaactt gatctgatct gattttgaat 240
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<210> 33282

Books in the Series

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tattgaaaag atttttcaaa aaacaaacat agcatagttt tgggttttcaa aagaattttt 180
ctcagaattn tctaagttac tagaagtttt actctctggt atcgatacca gttcctaaat 240

291

<400> 33285

<400> 33286

<400> 33287

13860

tatattgtgt cagttgaaga tgtagttttc acctgctttc ttcaacctca tgggtcactt 240
aattgttcat ctggtgaagag aaatcaaatg ttatgggcca attcatttgc attggatgta 300
cccggttgag cgatacatga agatcttaac aggggtatacc atgaatctac accattcata 360
agcatctatt gtggaaaggt acatcgcaaa agaagtcatt gaattatgtt 410

<210> 33288
<211> 406
<212> DNA
<213> Glycine max

<400> 33288

tagcctagat caaatcgggt tcccttcttt ggtatgtttt gtttgaaata tccctatggg 60
agagatgccg gaattcaaatt tatcaacaac ttcttcatta agtgtctacc tattttgcta 120
tttctaaat taccctcact tatgccttta aacctaaatc tatttttgac acagaacgca 180
ctcattctcc gcttatattc atttggatca tatcagcagc cacactgtcc atttcattac 240
atttccaagc tcaaagtgtg gagagaagaa gaaaaggaag aatgggtgagt taaaaaccct 300
atatctagtt ttcattctca ctgattttat actctttcat tatcatttta acacctaaag 360
tgactctgta ttggctgttt gaacttacat gtcccatc cctcat 406

<210> 33289
<211> 360
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33289

tatcttatta tatgacataa gangcattgg ttgtagtga aagtatttat ctattaaaat 60
aatcacgttt atgtgatttc aatgtataat gacgacaatg gagattaagt ttaagtccta 120
ttgcatctaa tgtgaccctg atcgattcta tattgtctac ctatctaag agtagttatt 180
attaaaaaga aatggctttt attgcactct tctatcctta tatgctgatt attttcagt 240
aataaattac tattgtccga cttttaaaat ctaagaatgg ttatcatcat ctttcttata 300
cacagtgcga taatgaatct catgatgtgc cttcatcatt gagtccataa ttacagctat 360

<210> 33290
<211> 487

<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33290

aacaccacgt gtnggggaag tagancgcng caacnnacgn ganannatan aataactcaag 60
cttcaggctg ctcaattgct tagattgagc acattttggt tatggtctat gcgngggacc 120
acagaggagc atgaaccaca gagtctggcg acagggttag atttttgatt catggccagg 180
tggtttacca ggttcaccaa ggcattctact tgaccttcaa tagtcttact ctgagctgat 240
gaagatgaat tcttggttac ttcattgcact cctttaatga caatagcctc attattcgca 300
ctaaatcgct gagagtctga agccattctc tcaattcaat atttggtctat tacctgcggc 360
atgtctccta aggcgtctac atagcgtgaa cgatcatact cctctacacg aactgagccc 420
atatataata tcgtaaaaag tgctcaatat ttgcggggcg cactgcgcta tttttaaact 480
tccagtt 487

<210> 33291
<211> 466
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33291

gccatgccaa gcccttatga tttntttctc acnnccatca tagattaatc tctttcttgg 60
aacagacnnt ctgatacttt cattctnntg ttcanaggct tatgaagaaa gttttcccag 120
aaaaaatttt agggaanaga atngnannaa atataaccac annngcttgt agttgaaagt 180
accactttcc tgtaataaag aaattcnnc atttgtgcat tcagaaaaat cttgcttcga 240
acttgaaga ttnntagttg ctggttgact tgggttgaaa tgggtcanng ctaccgatta 300
agcattgtca ttgttgccaa gaacctggct canaaatttt tgctcttggg atgcanaagg 360
gttngctatt gccaaataca agacaaggga tgaagaagaa gtgagctcaa tgtcttcaaa 420
tgtaaaactgt ctttgtctct caggctgcaa tctatcagat gaatat 466

<210> 33292
<211> 389
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 33292

aagatacaca ttataaatga ataaataaat aatatacatt actcgaaaca gaacatgtta 60
 acaagcatac acaatattcc caaattatta tcttgccctgt ttgaaatcct catcctgact 120
 tgtcactgga cgtgggtaat gaaagaaaaa tgtacaatac ttcaaacata ttaacaggca 180
 tacacgcaat attcacacat tatcttggca atttgaaatc ctcatcagc tttgtcattg 240
 gacaaacact acggatatag ccactgatat acgaaatcat attcaatgcc tttgaaacat 300
 ctgggttgga aactgtaaca ggttntgata taagggtga aatttgaatt ccagaagtag 360
 agattaaaca tatctcaatt gtttcttct 389

<210> 33293
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33293

agctngttta taatctcgga atgaagaatc tccatatgcc tgataaagag ggaggaaaac 60
 aagataattc atctaagacc tggattaata cgttgtgtct aaaagtaatc aagggattga 120
 atcagaaacc atataagcca accacaacct taaaaattgg cattgctcca atgtaaaacc 180
 tgactgcac tgcataggcc tccgacttga tgcacttgc tagtctatcg ggtaggtcat 240
 atatgaacta ctttcaacaa aggtaaaaag tatgtcaatc atattccact tccacaaaag 300
 actcagaagt cataccacta agtcaagtat ggaaacataa atatttcagt gatgcaaagc 360
 cggaataaag aaacatgcat gattgcttta ataattaata cctgaac 407

<210> 33294
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33294

agcttcatct ttgattagtt ttattaactn tgaaggcatg aataacaata atccctcttg 60
 ccaggaaaat caagatctga aattgagata tcacanattc cttgtgaaaa tgaacgtatc 120

tattggtatc	acatcattcc	tttgccattt	atactagcta	gcttgattcc	ttccatattt	180
tgtaagtntt	ttttataatt	tttggttttg	tttttgagac	agtgaccatt	gtgctacttc	240
atttactgac	ctttatcgaa	gctgccccaa	gtgttccatt	gaaatctgcc	ttaactgttg	300
caaagaaata	cgcaatggaa	gtatatcacc	ccggtctgaa	ctgaagtttc	aatatgtgaa	360
tagaggctat	gattatatgc	atgggtggtga	tcctttacca	gtgtcttgtg	at	412

aaattcttag agagtctttg a

321

<210> 33297
<211> 512
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33297

cccaganaga ggggnnacct agngtctttg ctagtnntcc tagnannnac nnnnnnannn 60
nnggnanaga nccncgagag tctatgnata ggagnngnan gntttgattt ataaatttga 120
ttgggannga aaaggagcca gaagaggggc gcgctgtgaa aacagaacaa aaagccaaaa 180
cgcgagacat aagaagagaa caatcacacg cccagcatta ttggtttaac aaacatgaaa 240
gatgctcaga cccacatata tcaatacatg gataaaacca agattgcatg cgaaccaact 300
taacctgtat cacaaaccat tatattcatg atcagtgtta ctcgacaaat gttcaaagca 360
atactaaggg ggccaatgtc ataactatat agaccaagat acgactatta atccgaatac 420
tataattaat aaaatatcta aactgatggg tgtgggggag agaatacacga catctcgatg 480
aaggtgaatc ttataatcac ttgtataact gn 512

<210> 33298
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33298

agcttgtttg tggagcttct atggaggctg gatctttgag cttcaatgag gtcctttaat 60
ggtgattttc caccatggag atgcagcgga atacaaagga gaagaggtaa gaggcggcgc 120
catccattaa agaataagca tggaagaagg agcttcacca ccaagatgaa ccttggataa 180
gaagcttga gaggatgctt caatggagga aaagaaagag agagataaag agagaggggg 240
gagcacgaaa ttgaaggaag aaaaaggag agaagttaa ctctgagttg tgtctcacia 300
gactctcatt catcanagtt acaaaaagtg ttacacatgc ttctatttat acact 355

<210> 33299
<211> 364
<212> DNA

taagattcat tcaatttgc tcaagtttcct tcgtctagtg gactgacagc ggtgcaacac 240
 ttattc 246

<210> 33302
 <211> 453
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33302

ngcctgtaca aatgcccgc tgacnncant tnagcaagna cgggagagcg ataagtcgag 60
 ctgacgcatg cagccacacc tttgtttnta atattaaccc ctaacgcggg agggcatcaa 120
 atcacacagc cagaccaccg gatctgacat ggagtacaca aaggccccga gtaatgaacc 180
 gaccacagag cacacagcaa tactctgcca gaacctaccc agcgagagcg ctggcagaga 240
 gtggacattc ctagcaatac atgcaccaga attggaacag cgccatagtg ctagacatcc 300
 actgactata caaagccgcc cacgtgacac ttgaaattcg catacaggtg caagcaaaac 360
 cccaggcacg aaacaccac gttgatcaga atacaacacc gcaagaggtg cgatgctgcg 420
 tgtgagagac ccaccagag cgggaggagc agg 453

<210> 33303
 <211> 336
 <212> DNA
 <213> Glycine max

<400> 33303

agcttttttt tagtcatgtt tgaaaaccat gcaggggtta tgtttgaatt tagcttcagc 60
 taagacctca ttagctatca ttacaccatg gaggatatgt ctgcctttga ggaaagcaat 120
 ttgcctttca tcaattaagc gaggcagcac aagagccagc ctattagcca ggactttgga 180
 cattattttg tagacacacc ctatgagaga gatgggtcta taatcattaa gagattgggg 240
 gctattgggt ctggggatga gggctatgaa cgatgcatta ctccctttgg ggaatctgcc 300
 attaataag aattcatcaa agaataatgat aaaagc 336

<210> 33304
 <211> 236
 <212> DNA
 <213> Glycine max

<400> 33304

tcataaagcc cccactgctc atcttttttt tgtcttgtag tacagataac aaggtctgct 60
 gcatccacag aaagttcttc tgctcaatc cttctcgta tcttataagt tgaattgata 120
 tcctctattg attggcgctc ctgcttgaca aagtgttcaa gcttgtttct tccaagtga 180
 tgacctgtaa gcaccattgg tacatttaaa gcacctggaa gaataacagc agtata 236

<210> 33305
 <211> 412
 <212> DNA
 <213> Glycine max

<400> 33305

tttgcaatct tatgttgcaa atatttacia tagacctct caacctcagc agcaaatca 60
 accatagcag aacaattatg acctctccag caacagatat aacctggat ggaggaatca 120
 ccctaacctc agatgggtcca gccctcagca agagaccaga gctccattc agagcttaac 180
 caatcagatg ggacaattgg ctaccaatt gaatcaaaa cagtcccaa attctgacia 240
 gctgccttct caagctgtcc aaaatccaa aaatgtcagt gccatttcat tgaggctggg 300
 aaagcaatgt caaggacctc aacctgtagc accttctca tctacaaatg aacctgcaa 360
 acttcaactct attccagaag aaggtgatga caaaaattta cctaacaatt tc 412

<210> 33306
 <211> 328
 <212> DNA
 <213> Glycine max

<400> 33306

gcttatcctt atggcaactc ccgccttatg acgactatct ctctggctctg acgatgagga 60
 aggagatacc catctctgtc cctgtctcca cctcatagat ctgtcccccac atgaactacc 120
 ccaaccgaac atagtccgcc atatcccgac ctaccccaca cccgtaaaag aatctgttcc 180
 cttcgcgga gataagggaa agattgaggg gctcgaagag aggttaagag cagtcgaggg 240
 ctttggaat taccattct cgtatttagc ggatttatgt ctctgcccc atactgtcat 300
 tcctccaag ttcaaagtac cagacatt 328

<210> 33307
 <211> 406
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33307

ttctntattc tatcggttaa gccgttatct cgcctaataa atgataaaat gaatttcaat 60
 cgatcatttg cggtgtaatc tcgtttaatc actgttaaaa caaatctaa ccgatcattt 120
 acattgtaac ctcggttaaa ccaaaaaaag caaaataata ataaaataat caaatatct 180
 ttgaataaaa taatcaaaaa aaatcaatct gacgtttttc tttggagggtt tccttgaatg 240
 aattgactaa taaccaaaagt gaaactaaga ctaaaatcaa ctacaaaatc aagctttgtc 300
 cataaaaaatc acttataacc cgttttaagg tccaacgcct tatacgggtcc tctttgcttt 360
 tatcggttaa catggacagt tcataagcat aaaatcagca tgtaac 406

<210> 33308
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 33308

tttcttcaat ctgagagctc gggatatgtg gatcattgtg aaacccctct ccatacttca 60
 caagggatgc atgtgcttgg gaaggtagaa aatggaagtt ttgcattgga ggaaaggata 120
 gatttggtgg tctaccagcg ataagaaact gcttgtgtgc ttcttctactg gaagtttgct 180
 ctccattacg gtccgtatta gaagattcag tcttagatat ttgaactggg ggatgaatag 240
 tgtatccagg ataactgca gtttgaaaca agccttgtca atagacactt tatagactaa 300
 ttcagaatat cattatttaa caaacttgat atgagagtag atacaaaatt ggtacttgcc 360
 aaatc 365

<210> 33309
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33309

tagaaaacta agcttggcag atctatgccaa gaatgcaagg ggacatatat ttctcttact 60

ttgacatgna tnntaagcta gatgacggcg attgtgaaac accaaatatt attacatatg 120
 gggcctttggt ggatggttta tgcaaagcga acaggggtga agaaacccat gaattattgg 180
 ataccatgtc agttaatggt tgtgagccca accaaatagt gtatgatgct cttatagatg 240
 ggtnttgcaa gactggaaag cttgataatg cacaagaggt gtttgtgaag atgtcatagc 300
 gtggatactg tcccaatntg tataacctaca gctctctaataaatagtcta tataaagaac 360
 aaaattggat cttgtttgaa agtggttgcca agatgctcga gattcttgca ctccaatgtg 420
 gtattacaca acatgatt 438

<210> 33310
 <211> 448
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33310

agcctttggg tgttcctctt ttcttttct cangccctat cattctcaca tactggatnt 60
 taagtcttat tagtgtcttt ttctaggata ctctacaaac cataaaggct ataagtgcct 120
 gtctcctact ggcaaaatat tcatctccaa ggatgtggtg ttcaatgaaa ccagggttcc 180
 atatactgat ctgtnntcta aatccatata ctctctacc ccaacatcct tgcctcctt 240
 tttagcanac attccccttg ttggctctcc acttgctact cccttaccaa aactgtacc 300
 caactccct tccctcctc ctcanacttc ccaaactcat gttcttgatt ctggttctga 360
 cattcagtca gttccactt ctctattcc tcnaaattcc aaactcctgt tctgattctg 420
 gtcttacact cagtcagttc cacttact 448

<210> 33311
 <211> 379
 <212> DNA
 <213> Glycine max
 <400> 33311

acgcagacaa gtctcttaga tgcctatgtg ccataatct atcttttgtc ttctacaaca 60
 atgccttgag tagttcaagt ttcaactttac cgccagcaag tgaattttta ttctgatcaa 120
 tgtgttcata ctaagcagcc ttaactgtac aattacctac aactattttg gacatgggta 180

665107 307430

tgaccatata taaatattga aaccaaagat tccttggagt aatgtgatgc caagaagaaa 240
tccaagattc ctataagtat aacccatggg ttgaaaagaa gcaagtgatg cttactatta 300
acttcgtctt ccagttcatg aggtccaagg ccattcacat tccctgctca taaggcgcat 360
cgattatcat catatcata 379

<210> 33312
<211> 276
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33312

tgcctcanag aggtccagga aggataaagc ggccgaagga accagttccg ctcccagta 60
tgacagccac cgcttttagga gcgctgaaca ccagcagcgc ttcgaggcca tcaaggggtg 120
gtcatttctc cgggagcgac gcgtccagct caaggacgat gagtatgccg atttccagga 180
ggagatagtt cgccggcggt gggcatcact ggttaccccc atggccaagt tcgaccata 240
catagtcctc gtnttttatg ccaatgcttt gcctat 276

<210> 33313
<211> 426
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33313

agctntgtgg actagtata ttaatatatn ttttagaaga gagacaaagc taggaaggaa 60
acaaaccaag agagtgaaca taggtgctg aaggaaaagt tgatggtttg aactttgaac 120
taactaataa ctaaatagtg gatatgatat gtgataatga gagagacagt gagaaaaatg 180
aaccatatcc atatctctga tgctgtgttt gatggagcaa aggacatgac tgacatatgc 240
tggtcatggc ctcacgggtc aggctagcat gcattacatc atgcacgtgc gtgttttagc 300
attctacat taacggccaa cggacgttcg caacgacgtc gttcttgcaa gagaaggat 360
ttaactactt attgtacgta ggtaaaaata tctcaactct taatgccaga gtaaacccta 420
ttagtc 426

<210> 33314

<211> 233
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33314

ctaataagta ggaatgtaag cttcatggag aatgagaagt ggagatggaa cgatgcanaa 60
 aatcagtaaa tggattatTTT gaatcaagaa gagttagttg atcatcctcc tggtcgcgac 120
 actagattac ttgccgacat atattagagg tgcagtgttg ttgtgcttga accaacagga 180
 tatcatgaag cagaaaaaga tcctaaatgg agggttacta tgcagaaaga gct 233

<210> 33315
 <211> 360
 <212> DNA
 <213> Glycine max

 <400> 33315

agcttgccctc tatatgtcca ggattacaag gcagccgaag gaactagttc cgctccggag 60
 tatgacactc accgctttat gagcgtgtga caccagcagc gcttcgaggc catcaaggga 120
 tggtcgtttc tccgggagcg acgcgttcag ctcatggacg acgagtatac tgatcttcag 180
 gatgaaatat ggcgccggcg gtgggcatca ctgggttactc ccatggccaa gttttgatcc 240
 agatatagtc cttgagtttt atgccaatgc ttggccaaca gaggagggcg tgcgtgacat 300
 gagatcctgg gtaatgtgtt agtggatccc gtttgatgcc gacgctatcg gccatctcct 360

<210> 33316
 <211> 459
 <212> DNA
 <213> Glycine max

 <400> 33316

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 cctttccttg gtttgaagct cactacaagc cttaagtga aaacctgat attaccatat 120
 ccttaaggaa ttttggagct ttggaattgt cttgggaata agtgtggggg gtttttgttt 180
 cattggacaa ctggttctgt tggctatgct tcatgatgta ttttgggcca tacttgatgt 240
 acattgtata ttggttaaat gtggacatgc tgaatgacat gctgtttctc aaatgctaaa 300
 ggtaaaaaaa aaaaaattct gaaaagaaaa agaatagcaa taatgttgag tgaataatat 360

cttaaagga caagattgat gaaactcttg ttctactctt catgtttaat tttatcttac 420
ctcttttaat ttctagtttt ttcttaaag actattccc 459

<210> 33317
<211> 443
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33317

ttagcggatt tgggccgga ttgctaaaga tcacagcggg tctgaaaaga ggcatacttg 60
tgcacctctgc tttgatgaat gcagaaactg tggcaaatga aaacggcgac aatgatggag 120
aaacccacgc tgtgactgac actcctatac agtcaagatg cagccaacc aaacaacgtc 180
cttacagacc caataacaac ccctcttctt accctgtgag tggatgtata cagaccgtg 240
atgaagccaa agaagattg aaacgaggct catttaacat caatactaac acaatcatga 300
gtcaaaaaca caaagccttg agcagagga atggaaaaca acccatgcgt tcaatgagaa 360
agatcaagta attcagggga tatgcatcaa taccactaca aagctcaact acgctgggtga 420
tatatgataa ctgtaacca ccn 443

<210> 33318
<211> 377
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33318

cgactaatac acttgtaaaa acatagaaag ttagtntatt tatatgtata taccatcaat 60
tgatatattg gtatatgtta ctcatcaaca acaacaaca caacaacaac gccttatccc 120
actatgtggg gtcggttaca tggatcaact tccgccataa tgttctatca agtaccatac 180
ttctatccaa accattaatt tcgagatcct ttctgataac ccctcttata ttacttttgg 240
gtctatctct gcctogaata gtctgacttc tatccatctg ggctactctc ctactacag 300
attctaccgg tcttctctct acatgcccta accacctaag tctaatttcc accatcttct 360
ctacaatagg cgctact 377

<210> 33319
 <211> 381
 <212> DNA
 <213> Glycine max

<400> 33319

ttagtcttaa acctttctcg gatggatctc acgcaacgat ctatcgattc gttgattcaa 60
 agtcaatctc ataccatagg tgggtccgaaa tcaaatacgtg gcactccatg ttcgtctaac 120
 ggcgttttcgg ttacttcgat tgcgacagtt tctgcagttc gagacatttc tttgggtttt 180
 ccgcattttg atggcgatac accactcttg gagtggatct tcaaagaaga gaagttcttc 240
 aattatcata tcaactccaga tctcgatcga agtgataatt gctctattca ttttcaaaag 300
 atgtgattcc ctggtttaac atgttgcagc ggatgcaagt tggagcacct gtgctgagtt 360
 acacgtgctc tggaaacaca t 381

<210> 33320
 <211> 251
 <212> DNA
 <213> Glycine max

<400> 33320

cgctcatag aggtccagga aggataaagc ggccgaatga accatttccg ctcccagta 60
 tgacagccac cgctttatga gcgctgaaca ccagcagcgc ttcgaggcca tcaatgggtg 120
 gtcattgttc cgggagcgac gcgtccatct cattgacgat gagtatgcct gattccaaga 180
 ggagatagtt cgccggcggt gggcattact ggttaccacc atggccaagt tcgaccata 240
 cataatcctc g 251

<210> 33321
 <211> 365
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33321

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 ctttgtgtct tgacacaatc cacacacaca ccagcatttt ccaacatcca aaaacaaagt 120
 cctaggataa gttaagaact ccaatctctc gcactatctt gttttcacat tattattatt 180

actacttggt tgtgtgtgtc tgttctacat tgttgcttgc taccctaccc atgatcttgg 240
aactgtgacg agatgccaca ttgattaaca acaacaacaa taaccacgtt agatctcaag 300
ttggagtctt tgtctggaga caccattat ggggggtgtg agtctgaagg aatcatggtg 360
tttct 365

<210> 33322
<211> 533
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 33322

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agatggagtg aggcgggtcga atgaaccaat tacgctcctt agtatgacag ccaacgcttt 120
aagagcgtg aacaccagca gcacttccac gccatcaagg tgtgggtcatt tctccaggat 180
ctacgcgtac agctcaatga cgagtagtat gccgatttac aataggagat aggacggcgg 240
ctgcgggcat cacttggttac ccgcatggtc atgtacgacc caacatatct cttgagattt 300
attcccatgc ttggtctatg gaggagggcg tgcgagacat gatatactgc gtgaggggtc 360
catggaatcg cgtctatgaa gatgctatct caccgataat aggacattct ttattgctgg 420
aacacggccg cgagtgctaa tcttgctcat aagaagaaca ccgtctgat tgtctttact 480
aagaagccat cctccacttg tagtgcatac ctgagacaga ttcttccacc acn 533

<210> 33323
<211> 402
<212> DNA
<213> Glycine max
<400> 33323

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aggctgattc aaacacttgg ttctctcaa tttcagcata tgttgctagg cttattcttc 120
agcagatgat aatgaattgt gaatttctca tcatattggt atagctatta gccactgaca 180
tcactttctg tgcagagct atattgtgca accatgatag gtaggcctaa attagatagc 240
gttagaactt ccactgctat gtgtacttag ctcttcttgg ctaatgcaca tttttataca 300
ttaagatcac ataattacat ccatacatgt atatagagaa gatgatctag ttactgtcta 360

aagtctcatt actcttgcta agattattct cttttttaca at

402

<210> 33324
<211> 434
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33324

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aaaagttgca ttcttttgac aggacaaagt ctacccaaaa gattattaag atactaaaag 120
gaagtacgtg aatcggtgta caacatgttt cattataaga gagtatacat tactcacagt 180
gtgtctttgt acttctgata gttaactgat agactaacta ctgtagttag tagttagtct 240
gttatcacgt ggtagtatag ttagtgcttg ccagctatgt aatagttgtc aactaactta 300
ggttacatta gttggtagtt aatccaaata tataaacaat cttgaattct gattacagt 360
gggttgaata atatcagata tctcaatctc aatgtcttct cttctctcaa aatctcttca 420
actctattat tcat 434

<210> 33325
<211> 196
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33325

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aatatatcga gacgctcgat attgaacaat ggaagctctt gagcaaatec aatggtcata 120
acttttaact cggaggtacg attcatgcgc ataatatatc gagacgttcg aaattgacaa 180
tggaactctt gaacaa 196

<210> 33326
<211> 355
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33326

DECLARATION OF INTEREST

<400> 33327

<400> 33328

13877

[illegible][illegible]

<400> 33330

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cggatggtcg tttctccggg agcgacgcgt ccagctcacg gacgacgagt atactgatct 120
acaggaggaa atagggcgcc ggcagagggc accact 156

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<223>      unsure at all n.locations
<400>      33331
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ctgtctaaat	ttgtgcagca	gataattgtg	cttgtgcaga	aaatgttgtg	tattctttat	180
tatggacatt	ttctaggcga	tcccaacggt	caaaatgtat	acctatgtac	tagggacctc	240
cagtaaaagt	ttcgggtcga	tccaacggtt	aacgaagcgg	aacaaagaaa	atgttactgt	300
gtatttgagt	agagaaaagtc	gtggtattgg	aatgtgtttt	ggcagagctc	tttgccctctg	360
ccctgttttc	ttgattctgg	atagttcatg	atggttgga			399

<210> 33332
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33332

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 ttgttcaata ctttctcttt caagaaaagt tccttgacca aaaacttgtg ctattctttt 180
 tctttattcc ttctctcttg tcaaaagatt gaaaggacta accgcctgag aattcttttg 240
 tttcttcctt tctccctctt aacaaaagat ttcaaagac taaccacttg aaatatcttt 300
 tgtttcttac aaaagatttc aaaggaataa ccatctgaga atatcttttt ccttttcctt 360
 taaacaaaag atttcaaagg actaaccgct tgagatatct nttgtttccc catacaaaga 420
 ttcaaggagac taaccgccta agaattcttt 450

<210> 33333
 <211> 457
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33333

agctntgtcc atattaatta cctaaaatac catttaaggt ccaatgcctt aanatggcct 60
 ttttgctttt attgggttaa cgtggacttt tgaaagccta aagccaacac ataactntgt 120
 cactactttc aagaaaacaa gagatcatta atagtccgat gccttaatgt tntctctcct 180
 ttcaaaagga tcaaaagatc gtttaaaggg tccaacgccg taaaacgacc ctnttttgta 240
 ttggtcacta tatcttacia aaaaggataa aaacaactta accaacgttt agttctcaa 300
 gaactacgta ggtctgtgat cgaggtcgta cccgaatcan ataaacatta aaatgtagta 360
 actatggaag tgatcctagg tcgtttccca acgagaaatg gataaccaa tggtcataac 420
 agatagtagg aagtagtaac aaaatggggg gggggggg 457

<210> 33334
 <211> 270

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33334

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 atgacagtca ccgcttttagg agcgctgtac accagcagcg cttcgaggcc atcaagggat 120
 ggtcgtttct ccgggagcga cgcgctccagc tcagggacga cgagtatact gatttccagg 180
 aggaaatagg ggcgcggcgg tgggcaccac tggttactcc catggccaag tttgatccat 240
 aaatagtcct tgagttttat gccaatgctt 270

<210> 33335
 <211> 430
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33335

 agcttatagg agtgtgtttt tgacattgta tcagagtggg catagaggca ctgaaaagtt 60
 taaatcatag actttatgta gcgaaagaga taaagacaag aaagggaagt aatattaaga 120
 agaataagat tattaacaga gcagaagaga gtcaccatca acgcatacat gagaacagat 180
 tctagcttgg atactgagga gagatactac agataataga gaagagactg tacaaccaa 240
 tatgatgagc taaatacaag agaaagggtga ctctcctcaa gcaggattta tcttactaat 300
 agttgngtca attgtcaata ccacgagtag aagccctaata aacatcttaa tgcttatgaa 360
 atggttccat tgtggattgg atatacaaca agaagttgaa caaaacacaa cttcgatgga 420
 tagcatgaaa 430

<210> 33336
 <211> 273
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33336

 ctcagctcga gactgtctta tgatataatg tgtttatata tatatatata tattcatata 60
 attatctctt agttntaaga gaaatactta aaacattttt tttcaattat tcttaaacgc 120

atcttataaa tctatggagt tgtctttacg cagatcctgg atatcctgct aactatgaca 180
atcctgagat gggatatgga ggaactacat gtcctcctga ttcttatagc atgcatcagg 240
tatgtgacac tctcttacia gttttatatg tat 273

<210> 33337
<211> 415
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33337

agcttatcaa aatttgagaa tggacttcan aagtctttca aaagattaca aactacttca 60
aggaaaacat gaaggaaaaa tagataattc tttagaaatt tccattcaat catgtgatga 120
ctttgaaagt ctaaaattaa agacaacaaa gctttgtctt gaaaatgagg atatttgtaa 180
ataaagatat agtatattgg aagaccttca gaagttgaaa aatcaactgg aaggcttaca 240
aaatgagtat atcacactca ataaacttca tgattgccta natgaggaaa gatgtnatct 300
attgaaagca tgttcccaag tccataagaa ttatgaaaac ttggaggcaa gtaaacatat 360
gatgtagctc ccagtagagc ttgtaggcct cggatcttnt catcaatgga gtatt 415

<210> 33338
<211> 459
<212> DNA
<213> Glycine max

<400> 33338

gaaacctgaa ccatcattag caacatgaaa cctgctgagg taactagagc cctgttaacc 60
cggtaaccca accggccatg aataataatc tgccctgggc gcagactctg tgggttatgc 120
ttcttttgcg acaacacaca aaacttttgc cttctatgca acaattttga acaattgaac 180
agcctgagct tatgctgcaa acatcaacaa cagaacctct caacctcagc agcaaaatca 240
gccacaacaa aataattatg acctcttcaa gcacaggtac aatcccgggt ggaggaatca 300
cccaacgtag atggcgatct tcaaacgcac acacacaact tatttcaa atgtgtaccta 360
agcgaccata cttctcacca tcgacaacag ccaaaacaca acagtgagct ctcacaactt 420
cctgagaact ggagcaatga atgcaacatg cgtttacaa 459

[illegible]

agcttcagaa ttcattttcg cgcgtctcaa tagattacgg gactcaatca gacatccaat 60

caaaacatta ttgtcgtttg aattagctca gagcttcaga attcaatttc gatgggtctcg 120
 atatattacg ggtctcaatc agacatctga gtaaaaaagt tattatcggt tgaatttgct 180
 gagagcttca acattcaatt tcgagcgtct cgatgtatta cgggacttaa tcagacatcc 240
 gagtaaaaag ttatcgctcg ttgaatttg ttagagcttc aacattcagt ttagagcgct 300
 tcgatatatt acgggactca atcagacatc cgagtaataa gttattgtcg ttagaaatcc 360
 tcagagcttc ggattcaatt tcgagcgtct tgatatatta cgggactcaa tc 412

<210> 33342
 <211> 357
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33342

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 gtgtgagctc aaccgaagtt gtatttcggc cgacaccggc attttgtcgg ccaggataac 120
 attagccac ctcggcaaaa aaacatgatt caccgatatt gacagaaaaa aatgctagcc 180
 ttagtcggcc aggaaagatg accgatcgag gtctaaaaaa gaagcatgac cggattacgc 240
 cgatcgaaca tttcctatta gatatgatgt gaacctgagt aggagcggat canttgatac 300
 aggttacgga ggttntggat gaacgccact tcagtgaagg aagataagtc atggtag 357

<210> 33343
 <211> 594
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33343

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 aaggtaaatt gagacctacg tagacacgct agacaatccc agaccgggg atactctata 120
 gagaccgct gcatgcancg cangccatct acantacaga cataccagca aaaggacaac 180
 ggcacagacg gagcatatat caacaccaa caaaccaca gcaggataaa cgcccaaccc 240
 caccacaagt atgggcacaa cgaaagagac aagcatcgcg caaaaatcac cctacgccat 300
 acctagaaac ggatgctaac tacgatgcag caagaaagac acgagagaca cgccgcaggc 360

accagccgaa caaatgtcgg gacaaacact cacgaactaa ggaagacaca acccaaccac 420
ccacatgaac tctaaatact gaccaagcag agaatacaaca tgaactcgcc acataaagaa 480
aattcgact gagcgccagc gaacagagac caagcctgct caataagaat atgaaccaa 540
acacacggca gtacagacat tgacgagcac acacacacaa cggcggagag gacg 594

<210> 33344
<211> 430
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33344

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caattgatca ttagaaccaa caaagtgagt cttgatttca ccagacaaca ccttntctct 120
tacaaagtga cagtctatct ctatgtgttt agtccgctca ttgaagactg aattagaagc 180
aacgtcaaga ggggcttggc tatcacanat aagcttagtg acttaagtgt ctccaaactg 240
taattgtagg agaagttgcc taagccatgt aattttgaat gcagcaactt ccatggcatg 300
gcatttagct tcgatgctgg gtctagcaac tatattttgc ttcttacttc tgcagagaa 360
caaatttccc ttcaagagtc agaggtagac ctccatcttg atggtgatcc taccacatca 420
gcatcagagt 430

<210> 33345
<211> 285
<212> DNA
<213> Glycine max

<400> 33345

tggaccgaat gggaatattg attgattcat agctcatcta ttggctatac tcagatcttt 60
ggcctggatt atggcgacac ctattccctg tagccaagat cacttctggt ctactatttc 120
atgctatggc tatcattacc attggccgct tcaccagttg gatatacaat atgtgttatt 180
gcatggtgag atgctactgt gcatcaaatg attgattgca cacattgcca ttctaccaat 240
cacgcacatt gagaacaaga atatggatat caactgttgg acaat 285

<210> 33346
<211> 423

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33346

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 tttagactaa cttatactga gtttcgtccg cggatccctc atgtaagact agacttagtt 120
 caagcaactt acgaaagttt agcctaatat agcctaagct tcattccatag atccctcatg 180
 taagactatg cttaaaccac acaacatcat tgtaaaacca taattaaaac caaaacttaa 240
 cccacagatc cctcatgtaa ggctaagttt caatgttgct tcaatcacgt tctaaggcaa 300
 cagtacattt tccaatgtta aagtcaccta actgtgcaca caaatgggtg atcagaccan 360
 gagcatacaa acattaagca ttgaatgaag cattgaacac aaaatacata atcaactaga 420
 tat 423

<210> 33347
 <211> 413
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33347

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 ttcaaaaata gaacatttaa aattgagatt gatgtgatag aacagaagtg ttttaccact 120
 acagtaaaca gtgaagagtg gttatggcat tacagatntg gccatttana ttttagagat 180
 ctgattaagc taaactcaag agaaatgggtg ctgggnttgc ctcagatcaa gcctnctagt 240
 gaagtatgtg atgggtattt acagagtaag caatcaagag gcactttcaa acaaaatgta 300
 ccaatcaggg caaaagagaa acttganggt gattactctg atgggtgtgg ccctatgcan 360
 actgaatctc tgggtggaaa tagatacttt catatcctta ttgatgaatt gac 413

<210> 33348
 <211> 405
 <212> DNA
 <213> Glycine max

 <400> 33348

 gtgtatcgag taacaatgac gaaacgactg tgggtactgt ataatgcatt ggatgacact 60

cattatacaa tagggtatca aagataattg ggaccaggaa atataatacg ttattttaac 120
aagtaacagt aactacttag attctattct ttatgaacca aagtcactgt taccctagt 180
ctgtaaatat cagaaggatg caccacaact gcaactgaagt cacttggaag acattcgagt 240
tcattgggct aattactttc tagagaaaga tagaaataaa acttaagctc tatttggcac 300
tttaciaaatg gatatacccc agaatagaca ccatgagttg ttcaatttat cgggagaatg 360
tgcaaaaaat aaatacataa tgtgaaaaaa cgaaatgaaa tatcg 405

<210> 33349
<211> 590
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33349

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atatanacaa aaaaagagag nnaaaatttg aaatttgaga gccctgcnta tancngacac 120
tatataagac tcaagctcaa gaagcactgt acggactcaa acaagcgcac agagcttggga 180
ttttaatgat tggcacatct ctgagtcaca cgggagtcag ataatgctca gatgaacatc 240
gcatataccc gaaggacaca acgtgtgaac ctaaactgct tgtatggata tgaccaaca 300
acaacaggcg ttcgactcaa aggatatcga atgtataaat gcacagaaga cgctagaata 360
tgacatgaca taacttagta ggccagccta ctcccttggga tggaacatac aacaacattc 420
aagggaatga tgcctcgacc actaatgcaa gaaactgata tattgagaag atgcatatcg 480
acaaaagcac tctcaaatac cccacacag ggaactaaaa ttggaacact gcaaacaaga 540
agaccgatgc cccaaggaga ccaacaatgg accttgaccc ctaggaatgc 590

<210> 33350
<211> 351
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33350

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attgtgagtt tccaccatgg agatgcagcg gaagacaaac gataagatgt gagatgaggc 120

gccatccact atggaataag ccatggcaga tggagcttca ccaccaagat gagccttgga 180
 taagaagctt ggagtggatg cttcaatgga ggaaaagaaa gacggagaga aagagagagg 240
 ggggagcaca aaattgaaag aggataaagg gagagaagtt gaaattgagt tgtgctcaca 300
 agactctcat tcattaaagg tacatcaagt gttacacatg cttctattat a 351

<210> 33351
 <211> 470
 <212> DNA
 <213> Glycine max

<400> 33351

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 aaaacattat aatcaattac actacatatg ttgaactcat tgctctcaag aaacttacag 120
 atgaatcaat tcgtttaaca ccttagaatc atattaataa tgcataaaaag aagacttaac 180
 ctagaacaat catcatgtta gtctataaca atcaatacaa ataccacatc tattaaactt 240
 gtttgacatt gtaaaattat taaacaaaaa ctaagacctt aagacatatc ttcatagttt 300
 tatgctttgg tccaacaata attcttcatt cgaaaatatg ttactactgt ttatattata 360
 aatgttaagc caaaatcatt aataagacca tctaaactca ttatcctttt tcccataact 420
 ataatatattg tgccccaac ctacttctat taaatggtag acttataata 470

<210> 33352
 <211> 227
 <212> DNA
 <213> Glycine max

<400> 33352

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 cgtttgaata tgctcagagc ttcaacattc aatatcgagc atctcgacat gtatacgga 120
 ctcaatcaga catccgacat aagagttatt gtcgtttgaa ttagctcaga agttcaacat 180
 tcaatttcaa gcagctcgat atgttacggg actcactcat acattcg 227

<210> 33353
 <211> 402
 <212> DNA
 <213> Glycine max

[illegible]

<210>	33354
<211>	452
<212>	DNA
<213>	Glycine max

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cgattatcgt	ctccctttcc	atcattgggg	gtaccacttg	ggccgccaga	tccctccacc	120
ttttaggcgt	gttctttgaa	agatccgtcc	ccctttntgc	aaatgttcta	tagttgcac	180
ctatccggaa	ccatatcaaa	attgtactga	tactgcctaa	caaaggcaac	cattatgtcc	240
ttccaagaat	ggactcggga	agattccaag	ttagtgtacc	aggtaacagc	tacccagta	300
agactttctt	ggaaggaatg	tattagcaat	tcctcatctt	ttgcgtattc	ccccatcttc	360
tgacaataca	tcttttagatg	gttcttgggg	caagtagttc	ccttgtactt	gtcaaggtec	420
agcaccttga	acttggggagg	ggtgatgata	tt			452

<210>	33355
<211>	321
<212>	DNA
<213>	Glycine max

agctntcagc catttcaaac gatcataact ttntactcgg atatctgatt gagtcccgtt 60
atataacgag acgctcgaaa ttgaatattg aagctctgaa ctagttcaaa cgacaataac 120

ttntactcg gatgtctgat tgagtcccg aatatatcaa gacgctcgaa attgaatggt 180
gaccctctga gcatattcaa acgacaataa cttttttctc ggatgtttga ttgtgtcccg 240
taatatatcg agacgctcga aattgaatgt tgaagctctg agccaattca aacgacaata 300
actttttact cggatgtctg a 321

<210> 33356
<211> 390
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33356

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gagaanaacg ttattgtcgt ttgaatttgc tcagagcttc aacattcaat ttcgagcatc 120
tcgatatggt acgggactca atcagacatc cgagaaaaaa gttattgtcg tttgaattag 180
ctcagaagtt caacattcaa tttcgagcgt ctcgatatgt tacgggactc aatcatacat 240
tcgagaaaaa agttattgtc gtttgaattt gctcagaggt tcaacattca atttcgagcg 300
tctcgatatg ttacggggct taatcagaca tccgagtaaa aagttattgt cgtttgaatt 360
ggctcaaaga ttcaacattc aatcgcgagc 390

<210> 33357
<211> 151
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33357

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tcttcacgtg catcgctatc actatcatta tgatctgaat actgaatgta cggcttaaca 120
agggatgggc tctaaaacat ggagtcacat g 151

<210> 33358
<211> 462
<212> DNA
<213> Glycine max

<400> 33358

attccttctc ctttctttct tccaaaacca ttccaatgg ttcaagctct ttcttcatca 300
 cccacagcca ccattagcca ccacaaaccg ccgttggtct ccgttgaaac cccacacccg 360
 agaggtacac ctttaccgga agcggaatct tccaacttgg cttgtagttt cggtagccaa 420
 cgaaaaccta atccgacctt ttcattttct tcaaggtacc acggtctatg tgatcn 476

<210> 33361
 <211> 438
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33361

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 tgtgggttttg aagttaaact aaagtagttg tgtgctttgt gaaatgggtt cagggctctt 120
 tggggctaataaatgtttgtg gagagagaag atgatcggtg tgctgagcat gattattgat 180
 gggtagcaga agtagaacgg taaacgttaa cactaatgac actaacaagg ttctgaacgg 240
 gatgccaagc tacgctctc cattgccttc ttctaattcc atgtgaatct ttctgaggac 300
 ccttatgtcg ttaatgttga tttcgttcta tattgagcta tgataggttc ctggatcgta 360
 gtttgcttcg tttatgattc tcatgtggga gattatttat atggtgcaat atttgtattc 420
 tagttaactt tatgaact 438

<210> 33362
 <211> 191
 <212> DNA
 <213> Glycine max

<400> 33362

tatctctatg tgctttgttg gatcatgttg aaaaggattg agtgcaatgc tgatggcgga 60
 cttattaaca caaaccagtc caataagagc attatatttt attttgaggt catcaagttt 120
 gatcttcatg cataacaact cactaaactc ctgagccata tctctaaatt ctgctactgc 180
 acttgatctt g 191

<210> 33363
 <211> 418
 <212> DNA

<213> Glycine max

<400> 33363

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aattattaaa tgactcaatc agacatccga gtaaatagtt attgtcgttt gaatttgctg 180
acagcttctg tattcaattt cgagagtctc gaattattaa atgactcaat cggacatccg 240
agtcataagt tatcgctggt tgaatctgct cagagctttt attttcaatt tcgagcgtct 300
cgatatatta tgggactgaa tcggacatcc gagtaaaaag ttatgggtctt ttgaatttgc 360
ttagagtcac tgggtctcaat ttgggtgcgc tcattatact atacgactca atcggact 418

<210> 33364

<211> 410

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33364

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ttcttgacgc tagaaattga atacagaagc tctcaccaaa tttaaattgac aataactntt 120
tactcagaag tctgattgtg tcccgtataa tatctagatg ctcaaaattg aaaacagaag 180
ctctgagcaa attcaaacga caatagcttt tgactcggat atccgattga gtcatttaat 240
aattcgagac gctcaaaatt gaatacagaa gctctaagca aattcaaattg acaataactn 300
ttgactcgaa tgtccgattg agtcattnta taattcgaga cgctcaaaat ngaatgcacg 360
agctctcacc anatntaaat gacaataact ttttactcag aagtctaatt 410

<210> 33365

<211> 509

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33365

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[illegible]

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<223>      unsure at all n locations
<400>      33366
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<210>	33367
<211>	403
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      33367
```

13893

[illegible]

<400> 33368

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<210>      33369
<211>      300
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      33369
```

<210>	33370
<211>	465
<212>	DNA
<213>	Glycine max

<400> 33370

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aagtttttcc cttccacatg cgcgcataac ccaaccttcc ctggttgcct accttactg 120
gactcaccgt cttccacggt acccatattc ctctgttctt aaccaccggg tccattaat 180
tcttccaagc ttacacaaca ttccagcaaa acaacattca cacagcacia gctatcacag 240
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cttttccact caaaaaaccc aggtaccaat tcttcgatcc aattcgataa ccgttggatc 360
gactccaaaa tttacttgaa gtctacagtg cataagccta cattttgacc gtggggatct 420
actatcatac attcagaact cattctacat tactcttgtc acacg 465

<210> 33371

<211> 355

<212> DNA

<213> Glycine max

<400> 33371

agcatttgat ttgtccaact tatatccacc cctaattgta ttgatacaaa ataaagaatt 60
tttatcaaaa aaaaaacata ttcattacat caaaatgtaa aaggcattta ttttcttttt 120
catccattaa aacctttcta attttgaat tttaacaaaa aaagaatatt aaagagaaaa 180
acctatgatg tattttttta tgagactatt atgtattctt atatctgtgt tctagtaata 240
caaaattaat tgtggagtga catggacca aaagttatat actaatataa ttcgattttt 300
ttctaataa ctttttagaga taatctcata atattgtcat ttcaaaaatg tgatc 355

<210> 33372

<211> 435

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33372

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cataattgtt ctaagctcaa ttgatattct tgatatgcta tgtatgctcc ttgaatcaaa 180

atttatataa tttgtcttca tcaaaatggg gcagattggtt agaattggac aacccatcat 240
 tgaacgatcc attcattcct ttttaagtttg atgagtaaca aagatataaa tntatgacca 300
 ctaataaactt acacttaaaa gtgcaagaca tgtcatatgg aagtattatg gtaataaactt 360
 ctatctcttc agctcctttc ttgattgtcg cactcttca atcctgtgcc tattttttaa 420
 agaataatca catat 435

<210> 33373
 <211> 384
 <212> DNA
 <213> Glycine max

<400> 33373

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 gcttctcata atgctggcac aattcttata ctctacaagt atgagaagat tcatctttct 180
 gctttggaga catatgcaca ttcgattcac tgtgctattg atagcaaac cactgccaaa 240
 cactgtcagg aatcattcat ctacagtctt cactccattg tggcaagaag agctcattcg 300
 gataatctaa ctatgtatca atgttaatat gaactgcacc tcgctcctca ttggagagct 360
 caacttcata ctattctcca ccga 384

<210> 33374
 <211> 62
 <212> DNA
 <213> Glycine max

<400> 33374

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 tc 62

<210> 33375
 <211> 407
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33375

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 tttttattcg gatgtccgat tgagtatcgt aatatatcga gacgctcgta attgaaaaca 180
 aaagcttgta gcaaattcga acgacaataa ctttttactc ggatgtccga ttgagtcccg 240
 taatatatcg agacgctagt aattgaaatt agaagctctg agcanattca aacgacaatt 300
 acttggtgact cggatgtccg actgtgtccc gtagtatttc gagacgctcg atattgaaca 360
 ctgaagctct gagaaaaagc aaacgacaat aacatttttac tctgatg 407

<210> 33376
 <211> 471
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33376

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 cacacaatta tggtttttct ctaatgaaac actcttgctt ttttaacactc taattcccct 180
 ttgagttcta agcaattcaa gagattatgg ccacaacaaa gaacaattca ccaatatgtg 240
 taaggtaagg ctagacaatg aaaagggttaa ccaagattaa ggctaacaat ggttttatgc 300
 acanatgaag gaaataatat tcagaattta ngaattcang taacaatcct tcatgcaacc 360
 aatatattac ctttaaagag ttntttcttn taagttcttc angcatgaac cattcagccc 420
 actttttttt attntaata tnnttatcac aaaatcgctt cctttctttc c 471

<210> 33377
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33377

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 aatcccaaca gtgagaatat gcaaaacagg ttctaaagggt ggttccaaat tcacgatgat 180
 ccaacggttg acgagtccat gatcataatt ttactgggac agatttgggt gtatgcggga 240

gttatcatgc tataattggc cattatcctt tntctttcct ctatntcctc tagtaataat 420
atntctcttg gtgctcatct taatc 445

<210> 33380
<211> 330
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33380

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tcggttntgc atgaatttct aattatcata acatattgatt catggaagtg atctgggcat 120
tctttctttc tttacatttt ttagccatgg gccaaacagc tatcccaatg tacattattt 180
ttgtcatttg caagcccctt tgagtcagac acttgatatt ttattgaatc acaaacctaa 240
gatgaaagtt tcttacctta ccttaagata ggagagcagg gatgttntcg atggagattt 300
ctatcattta gtggctagtt gttggtattg 330

<210> 33381
<211> 428
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33381

tttcttcaca gtttatctnt ttcaaacttg agttttggaa gaccaactac taagtctttc 60
ctaactagat gatataaacg atggatgtta atgtgttcaa cctacaatg ccacaacct 120
gaatcatcat ctatcttact caccaagcaa cttagctcat gaaaagatgc atgctcaaca 180
ttcagcatat aaatattacc tattctctta ccaatgtgga caactttacc agatatggct 240
tcacttataa gatagcaatt tctgtcaaac tcaatcttga aacctttatc gcatagttga 300
ctaattgtta gaaagttatg ctctagtga tccatatgta gcacattctt tatctgagtt 360
ttgtgttaat tccctatatt tccctcccca gtatattttg ctttgttatt gtctccaaac 420
atgacata 428

<210> 33382
<211> 397

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ccaacattca	acttcgagcg	tctcngtata	ttatacgact	caattagaca	tccgagtant	60
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<210>      33386
<211>      433
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      33386
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 atttgcacaa tcatagaatt tgcttactag aactcaaate atattngaatt tcttagatgc 360
 aacttctaac tttgtttaat ttggatttgt tggaattaaa gtatattact actgcactat 420
 tatcaagtta taa 433

<210> 33387
 <211> 53
 <212> DNA
 <213> Glycine max
 <400> 33387

tgtttgaagc gatccagtg ggcttgaatt agtgaagtgt caatcgatc gga 53

<210> 33388
 <211> 392
 <212> DNA
 <213> Glycine max
 <400> 33388

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 acaaaaaact gaattagtga gacatggagt tacaagattt gctaccactt tcttaacttt 120
 gcaaagattg cataagcaaa aggccaatct tagaaggatg tttacttcag atgaatgggt 180
 gaagtctatg gcagctaaag agcccaaggg gaagcaagca acagatgttg ttcttatgcc 240
 atcatttttg aatgatgttg tctatgcttt ataggctatg gggcctcttg aagtgtgtcg 300
 atgtggtgaa taatgaaaaa aacctgaata tgttcattta tgaacaatgg aatggccaag 360
 agcttcaata caatgaaaga tagatatgga ta 392

<210> 33389
 <211> 412
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33389

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 agatcttgtg agcgcggtatg atgacgtaag tctccgctg taaacaggct tgtcggccgc 120
 gattgacgaa tggcgagga gacgacttta gtctctgcgt gctatcaggc ttctcggtt 180

tcagatagca gaaaggttta tacggataac cagcggggta tctccgcccg tcagcgtgac 240
 tcattagtca gtatgacaga tcttgtgagc gcgtaagatg acgtaaactt tccgcatgtc 300
 aacgcgctag ttggccgcgt ttgactaatg gcgcatgaga cgaccttagt gtctgcgtgc 360
 tatcaggcta ttcgtcttac cgaagcaaaa aggtctattc tggtaaccac tc 412

<210> 33390
 <211> 379
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33390

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 aaagccttct tctataaatg gctntataat cgtttagtaa aactggtaaa tgattaattt 120
 gacgactcta gccaaatttc aaatagaagt gagttgtgtt gcttgttctt acactttgta 180
 attgattaca taaccttgta atcgatcaca ttgtgttgaa cttatggctt ctaagaaact 240
 ttgatatcaa tccatgcac tatcatgttt gattcacact aagcatggat aaagaaaaac 300
 taagacttaa tctaccacc atgcctagac taatacatc aatacaaatg ccacatcttt 360
 taatatgtgt ctaacattg 379

<210> 33391
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33391

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 agcaaggtag tatagccaat cttttgtcac tccctccaga gaatgaggaa cagcctttag 180
 aaagatatga tcttcttggc catcangggg cttcatgggtg gaacaaacaa tatcgaactc 240
 cttaagatgc ttatgaagat cttcacctgc aagaccatga aactngggca gcacatgtat 300
 tagtccagtc ttgagaacat atggaacacc ctcatcatga tattgaaagc acaagctttc 360
 ataagtgana tcaagtgcag ccactctcct agagtcctct 400

<210> 33392
 <211> 386
 <212> DNA
 <213> Glycine max

 <400> 33392

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 aaaatgcacc catatacaat caaggcagct tcgttaccta gattatttac atgtacttcc 120
 aagggtgtatt tgttacctac atcacacaca tttcctttgc taaattcaca tacatgcata 180
 ctctaagcac tttggctatc gaaaattgca tacgtgcaca tcctgggtatt tctaatacct 240
 atacatacac aaactttatg ataaatcttg actatctaca caataagggtg ctacatttca 300
 tgcttttttc aagtttttgc tacctaaagc cgcattgcaaa ttcaagtata ttttcttttg 360
 ctgactaaaa ttgtattcaa aataaa 386

<210> 33393
 <211> 408
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33393

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 gctaggggtg tgtgtagcta agctctagct tctcaaggaa gtttctcaag gaagttacct 120
 aggctataaa tagaagcatg tgtaacactt gttgtaactc tgatgaatga gagtcttggtg 180
 agacacactt canagttcca cttctctcct tctttnttct cttcaatgt cgtgcccctc 240
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 ttcttatcca aggcttattc cctagtggat gatgcctcct ctcattctct ctctatatc 360
 ttccgctgca tatccatggt tgaaaatcac cattgaagaa cttcattg 408

<210> 33394
 <211> 333
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33394

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 gtactcggcg ggaagtgatg gnggaaatcg acattcccat tcagataggc cccacactt 120
 gcaatgtggt gtttcaagta atggatataa atcctgccta tagctgcctc ttngaaagac 180
 cttggattca tgccctgnga gtgggtccctt caacgcttca ccagaaattg aagctcgag 240
 tgggtggagt tttagtata gtgtcgggtg aagaggatat gttagtgagc tgccctcctt 300
 ctgccccata cgtagaagcg gcggaagaat cat 333

<210> 33395
 <211> 386
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33395

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 gaaacctttg cgaaattctt cagggaac gttacggaaa cgtttcgaa gcgcctcggc 120
 ttagattttc ttcacggaaa cgatttttcc aagcaaatc gaaagagaga ggagtgcaaa 180
 aggggctgaa cctttttctt ctcccttcc tccctatctt atagcaaat aggggaggtg 240
 gttgccgcc agctcgcca ggcgagctca gctcgccag gcgagccagg ttgcttcctc 300
 cagaagcaac agccttctgg aggaatatc tggagggcc aagtgggctt gtgtgctatt 360
 tgcaccnca tttttactaa gtacac 386

<210> 33396
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33396

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 tactaatata tagagtgact gatcagaatg aagggatggg ccttgattag acctatctaa 120
 tntacctaatt taaactaatt gcacataaca aagcccaaac tcacatcaca attattcaag 180
 tgcatagggt ctgactttca aactcaatnt atagaaaacc gatgttaaac taacatatta 240
 acatcggttt tactgganaa ccgatgtcaa cgttcatcat gcgtacactt tntctgctgt 300

Figure 1. The effect of the number of trials on the mean number of correct responses. The number of trials was 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000.

```
<223>      unsure at all n locations
<400>      33397
```

tatttcttca	tgccactaat	gaaagtactt	atgtaatcac	aagttatatg	tttaatgaca	60
tttgacaatt	ctataagaaa	aaagggtctgt	taagtgttaa	cattagaata	ttcatatcat	120
ggaagcaact	tgcagttcaa	catgaaatac	ttgattttct	catacttgga	tcattgagaa	180
aaacggttga	tagaacacaa	cagaatatta	attgcaatat	gctaattttg	gataccggaa	240
atgtctacca	agcagnttaa	gaaataaggt	tgctaacaat	atgttacaca	gaatattaat	300
tgcaatatgc	taattttaac	aaacagatta	tgtcatttag	agaagaggaa	accttgtgtg	360
tcatgagagg	tngagacttt	nggaaaacaa	caaagaattt	atgaagggta	atgatccaaa	420
agaggaatac	caaatcatgg	acacatccaa	agggcaatac	attctcac		468

<210>	33398
<211>	396
<212>	DNA
<213>	Glycine max

```
<223>      unsure at all n locations
<400>      33398
```

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caaaaggaag	gaaaggaaat	tccaatcaa	agagatagca	aacaaggaag	gaaaggacat	180
tccaatcaa	agagtgggag	aaagagaaca	aagacaagaa	aggaaattcc	caatcaaaga	240
gtgggagaaa	gaatatagac	aagaaagaaa	attccaacc	aaagaatggg	agatagtaaa	300
aaagatagat	gctcctggtc	aaagaaacca	gaagacatgt	gccgagaggt	ccttggaacca	360
cacgatatct	gaacaataca	gaattgtcac	caaatg			396

<210> 33399
 <211> 294
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33399

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 aattagtcac aaccaaata taatccaaac aatcataatn taaaaacaca taanatccaa 120
 tcataaaaga ctaaagtcca aataccaaaa gataaataaa gtgcagaaaa tgataactna 180
 tataccatag ccaaaatata cggcttnaaa agaaaattat anactaaact ctaagactgt 240
 ggacgtgggtg gtggaagatc gaagctctgg cgaatataac ccacatcttc ttca 294

<210> 33400
 <211> 322
 <212> DNA
 <213> Glycine max

<400> 33400

agctaacaca ctttgtggac gtatcttctc atgtatagt taaaattagt tttcatgtt 60
 tgagtgtcca tttgcaagtt tcaaaactac gtttctgac caattcgac tggagtgtta 120
 ttttagtggt ggtatattag aataaagtgt tgtgtttgct ctaataatat tttagccatt 180
 agtatccaat tagatgcatt agttgcttga aatataatag accggacata attcggctgt 240
 tcaaaatata taattttggc aaaatacttt tgccgcctaa atatcccca taatattgtt 300
 atattacatt tcgataatga tc 322

<210> 33401
 <211> 270
 <212> DNA
 <213> Glycine max

<400> 33401

agcactatat gtattgatat gactctttac aatcgattat gaatgacaac gttcatatac 60
 actagaaatc gactaccaat atcttgtaat cgattacacc attctgaaat caattggaac 120
 gttgctcatt tagttgagaa ctttttgaaa tcgaacttcg ccaactggtaa tcgattacag 180


```
<223>      unsure at all n locations
<400>      33404
```

catgaatctc tgaatattga atgactgcat gagtctcaag aatacgaatg ccatgattgt 300
tcgacattac ctcttatcca t 321

<210> 33407
<211> 324
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33407

cgagacccat cttcaagaca taaacaagac acaacacttt gtgcgtgatc ttcaaataca 60
atagggtcag taacagttcc acctatgtnt cattacaaca acagagcgag actagaattg 120
acttcatgga agacaaggct gacctcatcc attggaatta cacttgatgg aaaattggta 180
tcatccctta atggcttcta gagctcgagt tactcggggt gttttgtggg ttcacatgc 240
tactgtggcc ataacagtat aaacacaccg caactatcta cgtagataaa acctcatcat 300
ngcgctaggt agaataagaa atca 324

<210> 33408
<211> 253
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33408

tcttgcttgt acgtttttca tccataaacc tatgtggaac atttgacatt gttataacct 60
aatttcgtcc ggtgattatg attngatgat atacaacctc tgattggccg cttcaagata 120
cttggcacc tgtgctgcac aatatgtgaa ttcccagat gtgccccaaa tcaaaaagaa 180
gcatgcgtac gcgatccgtg aaaatttcgc aatgtgacat aaatcgatg gaagtgtttt 240
tcgcataccg cga 253

<210> 33409
<211> 304
<212> DNA
<213> Glycine max

<400> 33409

gtcattctac acctaaataa gatgaggaca tagccgctct taagatataa cttcctaaca 60

aatattttca tgcaggtgga gcttcttcta gtaatttaga cttaccgcaa cctcttatcc 120
 ctcttccatt cccacctaga gcaattccag acaaaaaaat ggaagaagta gaaaatgaga 180
 tcttgagac cttcatgaaa gtagagggtga acatacctct tctagatgcc atcaagttta 240
 ttccaagata tgccaagttt ctaaaggagc tgtgcaccca caaaatgaag ctcatatgca 300
 atga 304

<210> 33410
 <211> 352
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33410

agctntgaaa agtgttgtnt ttcaccttct cgctaagcca atttgttggc ttaacgagct 60
 tccactaagc gcaacactca tgggctaagc gcgaggaaga ctctggaaga agatgagttg 120
 cacagattcg ctaagcacac cgcttcatct cactaagcgc actgcttcag ttcacccggt 180
 aagcgagaaa ggcacgtgct aagccaaaat tctaataatgt gcactaagcg gtccataagt 240
 gcgcttagcg cactgagcag aacaaggcca cctattttaag cctgaaatca gattctagag 300
 agagagtttg gactgggatt cacagctttg catgtctaga gattctaaag ag 352

<210> 33411
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33411

cgtnntgatt attgttgttn tcttctcatt cccctatta atattactta gactagtctt 60
 ctatgattgc ctttctaagt tcttcaaaaa ctaagggtttt atttaaatgtt gtttgttgtg 120
 accaactata gtnttacaca tatgaaagct tgaagcaagt gatgccatct agtattcaac 180
 ccaacacgtt tcagactgtg agttaaatgtt tgttccttgc tottaaccat catttntttg 240
 tctcattgca atgaatgtaa ctgggatgat tttaaaaatt tctatangca gtgtgtggag 300
 gattagctgg atctatggct gctttattca cgactccttt tgatgtgatc aagactagat 360
 tacagacaca tgtatttaat tatcatgccc ttcaattgta taaattctta ttgctactac 420

<210> 33412
 <211> 411
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33412

tgcaagcttg ctttactatc atgaaactcg tcttgcccg c tacaataaag aagcataagt 60
 gctaatttct ttgtccttga actacactca acgctattng caccaaaatt attacaaatt 120
 atgggtgattc tgggtggtttt taggggttcat atgggtcgtgg tgggttttctt aaccgcagtg 180
 ttagatgcgg tgggtggtggc tccagcagaa gtcgtggtgg tggtcagttt gccaaactttt 240
 agtatcaaca ttgtccttaa gtatggacac tgcgcaattt tgccacttta agtctgatat 300
 gagttttcag cctcatgaat cagtcacctt ctttgattct accacacttc naccaattcc 360
 ctactccact ggttcaatca gagcttctaa tacctggatt aatcctaatt c 411

<210> 33413
 <211> 450
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33413

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 ttgaccttga cttgatagaa cctctnttta agcanaggcg cctgactcga tcccatgttt 120
 tactaaagtg aaacaaaacc cagtgcgaat caagactccg acatctatca tgggtggaat 180
 ggatgaatgc atgaagaaat gcatatgaca cagaccctcc gtcgagattg tcctcttctt 240
 agatacaaca ttcgggcagc atggctcctg atgtatgcat ntaagaaggc gacacgaacc 300
 ctccgtcggg tcgtgacaaa gtgaggggat caagacgcaa cccatgcatg atgcggatgc 360
 gataaaggca caacacgagg atgtacatag tatgacaata tccacaaata atcatacagc 420
 aaaggcgtac atgacatttt taaactacat 450

<210> 33414
 <211> 426

<212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33414

 agcttgaaat gatgaagtgt agaatggtga aacttcttgc ttttattcgc tgaccacaga 60
 gtggtacctg gagatatgtc gcgggggtca ggagaccttg gggacgtcaa gtgnggtgct 120
 attgccccaa accaagcttg accaatcccc acccaacccg ggcatagtca gtcagtgaga 180
 acctgtgatg tacctaagcg ggcgagctcc tggcagtcaa cagataaaaag gaactaagac 240
 cacatagcaa ggaggcttgt gtggtggctg gccaaactgtg aactctgatn gatatatggg 300
 atatggcctc tggtaatcga ttaccaaggg tgggtaatcg attacaacgc ttaaaaatga 360
 agacaggaga ctaagatggt ctctggtaat cgattaccaa gggagtgtaa tcgattacca 420
 agcttg 426

<210> 33415
 <211> 451
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33415

 tatecttatg gcttgectcc ggacttcacc ccccggtgcca cccctgatga tttaagccaa 60
 gcccctactt tcgaggggca actccacact tatgaagact atcccgggca agacaatgag 120
 gaaggagata cccatcttag cccctgctc cacctcaaag atccgtcccc ccatgaacta 180
 ccccaaccaa acatagtccg ccatatcccg acttcaccca caccgtaaa agaactctgtt 240
 cccttcgtgg aagataaggg aaagattgag gtgcttgaag agaggttgag agcagtcgag 300
 ggctcggca attaccatt ctcggttga gcgatntat gtctcgttcc caacatcgctc 360
 atccctccca agttcaaagt accggacttt gataagtaca nagggacgac atgtccgaat 420
 gggcatcttc ggatgtattt atcgaaagat g 451

<210> 33416
 <211> 395
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations

<400> 33416

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ctcacagtct ttagaattgn gagccaatcc aatcccttgt gttcggactc tcaaccactt 120
atgatagccg gcgatgatcc cattactgct tcccctaagc tctctgtcct ttcttcacgc 180
cgcatcccat gccttgcgaa ctcttttgag taccctcgcg ttgtgggtcac cgaaaccccg 240
tgcgatgaaa ggcgtgatgc tttcgtctga tggcactcct ctcattggggg agccaagctg 300
tcttatggcg aggacgagat tataattaat acaaccctt gttccatcaa gggaacattt 360
ggacatcctt cgcatgaaga tagaatccct gattc 395

<210> 33417

<211> 464

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33417

tgtgcaaate anatcactcc tacatctcat ctctagcatg cattttcttt ctttaccac 60
tcttcacgtt tggtttttta gggaaaacac cataactaaa cgcgccgcaa gggatcccta 120
tcgcaccaga tccaaatcta gaacgatggg tgatcaagag gagacacagg aacagatgaa 180
agccgacatg tcggctctga aagaacaaat ggctccatg atggaggcca tgtaggtat 240
gaagcagctc atggagaaaa acgcgggccac tgccgcccgt gtcagttcgg ctgccgaagc 300
agacccgact ctcttgcaa ctacgcacca tctccccca agcatagtag gacgngaag 360
ggacgcactg tggcacgatg gcagccctca cctgtgatac aaccgaacgg cttaccctta 420
tggattgccg cccaactatt caccacccat cttgcaagaa gatg 464

<210> 33418

<211> 141

<212> DNA

<213> Glycine max

<400> 33418

gctcatattt atggggcaaa tttgggggtt tatatgcttg atttgtaga gatgacgggt 60
tggaaggat ggccttacgc ctatgtggtt ttctgaaaca atggggcatg ccacattgcc 120
cccattctct tgcaatttat g 141

<210> 33419
 <211> 337
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33419

agctttgagc atattcaagc aaatatcatc tnttttactc ggatgtctga ttgagtcccg 60
 taatatatcg agacgctcga agtggaacac cgaatctctg agcatattca aacgacaata 120
 actttgtact cggatgtcag attgagtcca gaaatttgct gagatgcttg aaattgaaga 180
 ccaaagctct gagcaaattc aaacgacaat aactatttac tcggatgtgt gactgagtcc 240
 cgtaatatat cgagacgctc ggaattgatt atcgaagctc tgagcgaatt caaacgacaa 300
 taactgttac tcggatggct gatagagtcc cgtacta 337

<210> 33420
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33420

tctcgacata ttacggggac tcaatcagac attccgaata anaaagtta ttngttgntn 60
 gaaatnttct catagccttc aacatttcaa gttgtgagcc gttttgatat nattacgata 120
 ccctcaatcg gacattccga gtaaaaaagt tattggctgt tgaatttggt cagagcttcn 180
 gcattcaagt ccgagcctct cgatatacta cgggactcaa tcagacctcc gagtaaaagg 240
 ctattgtcgt ttgaatatgc tcaaaaacttc gacattctag tccgagcgtc tcgatatatt 300
 acgggactca atcagacatc cgagttaaaa gttattgtcg tttgaatatg cttagagctt 360
 ctgtattcca tttgagcgtc tcgatatatt ac 392

<210> 33421
 <211> 446
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33421

tcgttgccca cctgactcga cttgcagcga atacttcttt cggcagctgg cgtagaacct 180
aagacgccgg cccggatcgc acttttctca tgtcgatctg ctgatggcga ctggctctga 240
tgcggaacttc atttcttaca cctctgcgcc gtctatcact accgatattg tgctctctca 300
ncacgagact gatatgccgc cgcatacgtg tctcaggcca gcaccctcct acatcagggtg 360
cgcgacttaa tgacagcgtc tgagcagaca cgaacatgtc gacaactgag tgcgggggta 420
gtcaccaact agtggcgtgg gacatcagcc atcgcg 456

<210> 33424
<211> 437
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33424

tagctttctc tagttaatta tcataagacc ccacaagaaa gcttccatgg tgatccctac 60
aaattttctc aaaccctgcc taagatgggt tttccaaaag tcgacttaga atctatagaa 120
tttaagataa tttttctaata tacaatctta gaattttaaa aaaaattaaa aaaacctaca 180
gtaatatattt tttatcaaat aaaaactcac cataattgac tatagaattt acaaatcata 240
tttgataaaa atcatctctc ttccaagat gatgatattt tgttactcaa taaaattaat 300
tntaaattca tgattgattt ggtgaataaa atcttanaac ttataagaaa gtcgcatttt 360
tcccctaatt ataccatgca ataataattaa aaaattcaaa tgagattnta aattaaatta 420
tatatgaaga atattta 437

<210> 33425
<211> 427
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33425

tggaccaagt tacttgtctg cttgaanttt tggatttgtc acactattga actataatta 60
ttctcaaata ctctgattga tgatttgtag ttcatacagg ctctgggttat cagactcctg 120
gtttaatgac ttgtgaccaa aattgggttaa tcagttttta tttttttatg tttagggtgtg 180
gactttggaa tatcttattt tagaattcat atatcttggt ttatgggtggg aaattaaaaa 240

aaagtataaa tctgggtatgt gtgatattca acgataataa aacaagtgat aaatcaaata 300
 ttatgttcca ttntataaat acactagtgc tttatgggtg tgctcttgg cactcccact 360
 agtcccactg ctctaacaat tattttatac ttcaaatacc cttcattgaa tactttgtcc 420
 ttatttc 427

<210> 33426
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33426

ggcatgttta tgcttgtggg attttntgt gatagtgaat tttggccgga gaaatgttga 60
 gtgaatagat aaaagtacct taccgnngat ttgtattttt tatgaggtga attggtgttt 120
 ttacatttgg agttctatag tagcataggc atttgtgaca ctttttctac ttgtganatg 180
 ccgagtattt gtatgctgca acttcttgca cnatgtcant gctcatttgg ctaagaaaga 240
 ttgtttggag gatacttcta gttgttgcaa taagggaaag cacattagat ctattgttga 300
 tatatagata ctgcacaaaag agcttgccaa agaatcccgg tgttctcatg aacgaagtaa 360
 gcatatagat acaacgtatc atttcattag agagtgcatt accaagaaaa gaagtagaat 420
 tgactcatgt gaatactcaa gatc 444

<210> 33427
 <211> 422
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33427

ctatntggct ttctctntat tatgaacaaa gatcgaagcc atatcttagc tagctacact 60
 tggtcataat aatgcacaca acttcgaaag tggttgca ca cttaatcatt taaaaagaa 120
 gatttttaaa gttttatctc atagaaaaca cttcgtccaa gaatataagc catatagagt 180
 atactagatt cttanaaaca tttatgatat anaaataata tntttataca gactagatgg 240
 atgctttcaa ttaagtgaac acttangtat atagaaaaaa acatttgacg gcttatgtta 300
 agtagatgga ttattanaac cctagatggg attgtgatgc tagtcttaat gatacttgaa 360

gaatntacaa gacatacaca tgacacagac cctagctctt caatcttggt ctttgacctt 420
ga 422

<210> 33428
<211> 268
<212> DNA
<213> Glycine max

<400> 33428

acctcatttc tgtagtcgac gacaacgctc gacttggtgaa cttatctgcc aagagtatat 60
aactggaata actaatgtgc ctttatcaca tctcttcaca cagtaatgct gagcaaata 120
atgtcagcat tcaactgtcta tctgcattaa gtaatgagga aacgacgaga acagaacctc 180
tgaaaatttg aataatctat ctatcactcc aacgatcgta tgatcatgta tgcattcctc 240
ttgctcataa atcctactgg gttcaact 268

<210> 33429
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33429

tgctgatggt gcaggaacat atggtgaaac aaccttgctc catttctttg ttaangagat 60
tgttcgctcg gcacgaatca cagcttcata caggatcatg cggcataata actaatatcat 120
aactgaggaa gagatcgatg atacgtatgg acataatacg actagaactc gtttctgatc 180
taagtgtga gttatgcgct gttaagatga cactcacaat tgactcggat gtccttgac 240
gctctatctc aaacctatca agtggatcgg ctaacatgca gaacctgtta acgggtcgtt 300
tgtgtgagga tgtaaagagt gacagctttg tcatgtctat gaagtggat cagaactatg 360
cacaca 366

<210> 33430
<211> 336
<212> DNA
<213> Glycine max

<400> 33430

agcttttact ttatctgtaa gctgtagcca ttaggtcgat caccatgtag ctaatgttgc 60

tccccctatc tctagcatat catatgtcaa taagtacttg cagtttctca tgatgaaaaa 120
 tacttgaact atggggcatg tcaattgggt tgaaacttta ttgagactaa ggtcgatcac 180
 catgggttagg aagttgattg agcacgacat ggtgacctcg acacttggtg cctagtttta 240
 ctaagtgaag gcgtcgtgtg gacacactta agctatTTTT tgactaatga taccacattg 300
 catctgatat atgaagccta gtgcttgcac cataact 336

<210> 33431
 <211> 294
 <212> DNA
 <213> Glycine max

<400> 33431
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 aagttttgct gcacctctta ccaagtattg atgctattat tcggatgtga ttggagccat 120
 gtttttgctt tacctgcaa tgaaaatctg aaagctctga ggtagacagc tacatcatct 180
 tcatgtgatg ctcccatggt actacataat tgcacaacac ttattgctga aaggaggaat 240
 gactatgttg gtgatatgct atggtccttg ttgattagca tagtcaccaa gagt 294

<210> 33432
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33432

agctntggga ctgtaaaact atataacagc accaagggtc tagtttaggt ctctcttcga 60
 ttattcgttt ttagtttttag tctctctctc tctctctctc ttcttctctc tctattttc 120
 gtttttagtt ntaggctttt cttagacact nttttgtttt gcaattccag ttttgacttt 180
 tcatttttagc aataaaatnt tgttcttcaa tctataatTT cgttctctat tgattaatgg 240
 aaggctagat tttctgggtg tgttctttt gaggacgaag cccaactctc tntgagggtt 300
 cgctggcaat gtggtttctt ggcagttntc cttcaccag ttatcccaat ttcgtgaata 360
 ttaatcagtg cacgcttctg gtctgattaa ttgcctctga 400

<210> 33433

<211> 389
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33433

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 gagtctaattg ttattcctcc aagaaaaggaa attctagatg atattgcaga atcttttagaa 120
 aaaatgcata tttatggaca agattctaaa ggaaaagggga aaggaagcaa tgaagatcct 180
 ccagaagaag ccatatcaaa ttatgaactt ccaagagaat ggaaagcttc aagagatcat 240
 ccccttgaca acattattgg tgatatctca naaggggtaa caactagaca ttctcttaaa 300
 gatntatgca ataatatggc ttttgtgtct atggttgaac ctaaaaatat aaatgaagcc 360
 ataatagatg atcattggat agttgctat 389

<210> 33434
 <211> 427
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33434

 agcttgaaat gtttaagtgt agaatgttga aacttcttgc tnttattcgc tgaccacaga 60
 gtggtacctg gagatatgtc gcgggggtca ggagaccttg gggacgtcaa gtgggggtgct 120
 attgccccaa accaagcttg accaatcccg acccaaccog ggcatagtca gtcagtgaga 180
 acctgtgatg tacctaagcg ggcgagctcc tggcagtcaa cagataaaag gaactaagac 240
 cacaaagcaa ggatgcttgt gtggtggctg gccaaactgtg aactttgatt gatatatggg 300
 atatggcctc tggtaatcga ttaccaaggg tgggtaatcg attacaaggc ttaaaaatga 360
 agacaggaga ctaagatggt ctctggtaat cgattaccan aggagtgtaa tcgattacca 420
 agcttga 427

<210> 33435
 <211> 450
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33435

tatccttatg gcttgccctcc ggacttcacc ccccggtgcca ccccggaaga tntaagccaa 60
 gccctactt tcgaggggca actccacact tatgaagact atcccgggca agacaatgag 120
 gaaggagata cccatcttag cccctgctc cacctcaaag atccgtcccc ccatgaacta 180
 ccccaaccaa acatagtccg ccatatcccg acttcaccca caccgtaaa agaactctgtt 240
 cccttcgtgg aagataaggg aaagattgag gtgcttgaag agaggttgag agcagtcgag 300
 ggccctcgga attaccatt ctccgattta gcggatttat gtctcgttcc caacatcgtc 360
 atccctccca agttcaaagt accggacttt gatatgtaca aaggggacgac atgtccgaag 420
 gggcatcttc tgatgtattt atcgaaagat 450

<210> 33436
 <211> 207
 <212> DNA
 <213> Glycine max

<400> 33436

ctagatgaca cttgacctgc ttggcggctc gaccgactat aacccttcta tttgtaatgc 60
 tgaatgatac tactagacac tcatcaaccc tccatgtcag acctgatgca ggagcatgaa 120
 cgcatagccc ataataacc gactcccca ctaacacgct atctcccacc tcttattatt 180
 tgagcataaa ggcattcctt tatctct 207

<210> 33437
 <211> 299
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33437

tcntcggagg gagagaacga gagagagaga gagagtggca cggtttatga atgataatac 60
 ggagagaact tgaacgatga agtgtgtctc acatgtttct catacatcaa tgtagagacc 120
 tgtgttacac gagtttctat ctattgecta tgtcactacc tagattgaga ctctcatatt 180
 catttcctga gaatgtagaa ggaatatgcc gagaatatgc cctaggcatc ttatcatatc 240
 ccctttatat gccgcaagca tggatcgtgt gactctagca catgggacgc tttcttgag 299

<210> 33438

<211> 443
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33438

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 atggaaaaag gccaaaggtgt ttacatgaca ttcagaggat gtggcggaac attgacattg 120
 tccgcgtacg cttgacattt atggcattac cttacatggg cgcagcaatc gctttccata 180
 gtgagctagt aataacctgc tctaaggata ttctggcca taccatgccc attggcatgt 240
 gtcccanatg caccctcggtg gatttcctta atcatgtagt tcgcctctct ggcatctatg 300
 catcgcatga gggcatggtc gtcgtttcgt ttgtacacga tggtagcact cacatagaaa 360
 ctagtatcca atctccgtaa cgtgcttttg gcattgtcgg aaatccctgg tggatattct 420
 ttgttctcga catactggct aat 443

<210> 33439
 <211> 395
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33439

tctgtccctg agaaactggt tcccagaaga caacagggga gtaatgaatg ctgaataccc 60
 taaccttgca acatgtccct aggaagtaga cacggagatg gacaagaaaa tccgcagtat 120
 tgtgagtagc attnttgaat agacgcctct ntgtgcctga ttgctgagaa aagatgttcc 180
 aacatcttcc aaccaagtg tttctgtgcc tgatgctaag aaagatgttc caacatcctc 240
 cgctccaaat gctgaagccc tcccttcacc cagtgaagag gaatcaacag aagaagagga 300
 tcaagcctca gaggagactc ctgcaccacg ggcaccagaa cctgctccan gtgacctcat 360
 tgacctggaa gaagtcgaat ctgatgaaga accca 395

<210> 33440
 <211> 450
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33440

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 taaacaggcg agtccttggc agtcaaccaa taaaagaaca aagtcacga agcaaggaga 120
 cttgtgtggt ggctggccag ctatgtatct tngtgggtat atgaaaatta gcctctagta 180
 atcgattacc attcatgggt aatcgattac agggtttana aatggagaca ggatgttaag 240
 tagctactgg taatcgatta ccaattgtgt gtaatcgatt acatactttg gtaatcgata 300
 ccagagagga aatcccttga naaagatatt ntgactattg cgtagccgta tgggacgcat 360
 tgtatgcgta cctatgtagt tagatttctt gtgaaagagt ctaccctctn tcttttatct 420
 cttgtagatc gcgatgcagc acagttgatc 450

<210> 33441
 <211> 377
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33441

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 gtggatcatc tggaatattt ttttgcaatc catattttct catgacccta tctactacat 120
 gtcattccag aattgcaaaa catatgagag atacttttgc acgaagaatc atagatacct 180
 caacattatt agttaatcac cttatttgaa gtgtctcata aggtgtccac cagaactgca 240
 agacatatat tattattgtc acatatttat aaatgaataa gaaacacaaa gaaatactta 300
 atagaaataa taaaaaatg aacttcatcc atatgtatgc tattaaatat gatgcatata 360
 agtctgattg tatgggt 377

<210> 33442
 <211> 423
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33442

agctgtgcc a tgtttcttca taatattaac actctccac actcctatct attagtatgc 60
 tttgaatctc tcttctctca tgtataaggt atctttctgg ttgagctatg aattaattat 120
 taatctaatt gttaagcaga gtaaagatt ctattataac gattcttgta gttgattaca 180

ttgtgtgatt gaatattttt tttggttggg tcatcactat tccgtaagga tgacaattgg 240
 atctattcat ctcgtaactn tctaattctt ccataaataa attcagccaa aatatgcaat 300
 tatcaaagac aataatggat tgcatatggt gagtcaatgc tatcattgga tggtcagtga 360
 accatccaac atatttctta taccattgga tcaatgggag caactccaat ggggtgtggag 420
 agt 423

<210> 33443
 <211> 338
 <212> DNA
 <213> Glycine max

<400> 33443

tgcagcatcc ataaacaaat aggagacaag atagctataa aaaccttcca agtattcata 60
 atctacaaca ccatcaaacc catagcttta gaatccttgg ttgaaaaaga gaaaaaaaaag 120
 aagcactatt tacaatgac aaagtcaaac atgcatctag gcacatcacg tacaccatt 180
 caaaacatag aaacactagt tttttaaaaa tattcacaac catgctttcc gtcacgaccg 240
 caacgggtatc acaattacaa ttatggctac atcggacgta ttaatctgca attttctata 300
 atgtcatagg atcacgatga aatcgcgacc ccgaccat 338

<210> 33444
 <211> 405
 <212> DNA
 <213> Glycine max

<400> 33444

tagacgacct tgttgagtcg agaatacttg attatatata tggacttggt tgaatatgat 60
 gtataaagag gtgaatgtga gcctcttttc ccctttgaaa gactcgttta aaataatggt 120
 ttaaaattac ttttaatgaa tatttgaatt ctttatattc cttatcacga tatatgtgag 180
 gggtagaggg tgtcacaact atcatccaaa caatttatga ttaatttttg atattatgac 240
 atacattcat aacctagtcc attgtgcac ctaaacataa tcgcatcat gaaaaataag 300
 aataggattg gagagaaaga ataattttca cacagagttg aaataccaag ctttgactca 360
 catatctact tgcttgaagt ggatccttga atggataatt gttca 405

<210> 33445
 <211> 395
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33445

agctntgata gtttgcgctc tctcttattg tattctccca cgatatactt gagcttgaac 60
 ttggtgaatg cctttntaag tcaggtagct atggngaagt accttgcat ttgaggatcc 120
 ttagtttacg aatctccatt cagttgtcta gtgataaatt tggagctgct ccagcactta 180
 aagtatttgg ttcctactct ttnttctaatt cttaggccga ctaagaaagt gtcgcaacat 240
 gcccttntgc aggcgagcga agcaaggctc acgggtgcgc tttccaaagg aggaaagatg 300
 cgtggagtcg ccaccaacgt ttttttgtgg gaaacgtcgg ataaaccgaa ggaaaccggt 360
 caaaatgaan attctaagtt cgggagttgt attac 395

<210> 33446
 <211> 350
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33446

nttatctggt ggattcactt ttgatcacia ctgtaccata ttgaatatca ttagtcacca 60
 canaaggacc aatccacttt gacctcaact taccactcgt gagtccaagc ctagagttat 120
 acaataaaac tttctgtcca accacgaagt ctttcttagc gatcaaacta tcaaggaact 180
 tcttggctct ctctttagtag aatttggaat tctcataggc ttctaaacgg atctcatcta 240
 actcacttag ttggaacttc ctttcctttc cagcttgatc aatagagaag ttgcaggctc 300
 ttacagccca gtaagctttg tgctctatct ctacaggaag atgacatgcc 350

<210> 33447
 <211> 287
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33447

ttagcttccg tgatttggg agagcctnta cacaatcgag aactattatg tattgactct 60

tgctatggtt taacgacaac aggacagtgt taacgtgcmc tccatgtttc tgatacgacc 120
 aacgtataag tcacaatatg aaatcatgaa tatctatata aggaaactga atagcggatc 180
 aaacattctg gacgttatat catttgcact gaactatcaa tgtgttacca ggcatagagga 240
 gtctctggtc atttatgacc acgatcactt tctggaatta taatccc 287

<210> 33448
 <211> 460
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33448

tgaacacgat catcgacact gatggaagan ctgtgtttga catgagtgga tggaaacttg 60
 cttgatgaca acaacgagta tggctgtgtg aactactttg caattgtcta tcctatggag 120
 acagcgacaa ccaatagtga gtatgatcct tatcatataa aaactcgcca tcagacttta 180
 caattgtggg gaactgtgta tattaacatg ctgctgttaa gatatgaata ctatactcgg 240
 taatacaaga gaacctcctg aagctttcaa tgactaatag agtgggggtga aaggatatac 300
 agagaagatc gatggacaaa atcattatca cattctgaaa acacctatca ggttgaaaga 360
 atgcatgact tactgctcta tatctacacg acatgatgct gcatgctcta acgatgaaag 420
 accggcgagg gcacatgggtg gtctactctc taatgttttn 460

<210> 33449
 <211> 276
 <212> DNA
 <213> Glycine max
 <400> 33449

tgcattcttc ttaccctctt attaccacaca ccatacatca aacctatcaa tgttttagata 60
 atgacatcta cagaaatgca gttgtgaaag gaaaggggcc taagctctac ttgtgatgac 120
 aagtttttcc ctagccatcg ttgtcctaata aagcaacatt ctgttctact gtgggaagaa 180
 gaggatgatc ctgcatttca tccagatcca ccatacgatg ctgacacagc tggtgacccc 240
 acattgcaag atcatcattt gtcttataat gcttta 276

<210> 33450
 <211> 404

```
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      33450
```

agcttctggt	gtttaacacc	tctcttgtag	ctctgttatc	cgatttccaa	caaggcaacc	60
ttggctttgc	accttacggt	gagtattctg	gcgagtcata	ggtgttatgc	agacatctag	120
tcaaagaggc	taataattaa	tgggtgtggg	tgttgataaa	accccaaaca	atgatgttct	180
aggggtaaaa	tggattcttg	aagcatatat	catgataggg	cattgctata	gtgcactaat	240
taacactgct	at ttg gccg	ttattgcagc	cgctctggct	actattaata	aacgactcca	300
ctatcctggg	attgactact	aaattngatg	ccctagttaa	aaaagtaatt	aatgggatca	360
taccaaatat	acaaaggtag	agaaagacca	tagagaacct	aatg		404

```
<210>      33451
<211>      451
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      33451
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tcagtagcag ataaatatct catacatggc taaaggcatg agatattttc aaagcaaact	60
tatagtcaaa tgatgaatgt tcattatttt tataatttat cttctgaaat tgttaatttc	120
atgtttcacc tacaagactg catcatttct ttcataataa ttgttgcaaa gcattgaatt	180
tgctgacaat gtgttttcta gtgatggaat ttgttaacaa atatttattg agatttttct	240
gccaatttg aagccatcaa tttgttgatt atttgctata tatcataaga tggtggtgca	300
tagcaatntt tggttgagcc atgtctactt agtttgatan tttgtactct gtaaaacata	360
ctttgtttaa ttcataccat ttctatggaa attttcaatt acatgaaatc ttaatctttg	420
agcaccaacc tcggacatga gcaccaatct a	451

```
<210>      33452
<211>      397
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      33452
```


agcttctctc tatctataaa tacgacatca aggatcgaac aacgacgacg aacacataca 60
gaanaacaag aagtcgtgaa ttaagaaaca agaaaaaaaaa ttaagaaata cactgagctt 120
aagagagtcc atcctttgtg atatacaaag tacttgtgag agattaaaac ttcattgtat 180
attcactctt tgggtgttgt aaagaatctc tggttctatt tcaaaatttt gtttatgaaa 240
gtcaggagtg gcttagtgat aaaataatac ttaagtgttc ttagatttag gagatatcta 300
aggattgtgn tagtagtgac ctccacaata cttgatagtc aaaagtggta gaaaagaata 360
gtcgttgtaa tcaagtttga ttagtagaac cttttac 397

<210> 33453
<211> 454
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33453

tcttggttct ccaagctcga tttgcgccag ggattcgatc agataagaat ggctgagtct 60
gacattccaa aaaccgcatt tcgaacacat caggggcatt acgaattcac ctaacaatga 120
tcccatggta gtcaaactgg agatttctaa ctttatagtg tgcagagtct tgattgacca 180
gaggagctcg accaatattc tctattggtc taccttcaaa aaatttgata ttccaacaag 240
tcagatcaag ccattctctg aacaactcat aggcttcttg ngagagacaa cttacacaat 300
gggacatgtc aacttgctaa cgactntcag aaacgagaag tgttccaaga ccataatgat 360
caggatatctc ctagtcaaag cactcatttc ttataatata ttaatttggg ggggtgcactt 420
aataaattat gggctattat ttcaactccc tate 454

<210> 33454
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33454

ctattagcga cctatgaata ctacgcttaa ggatttcaaa ttccgtctga caaacaataa 60
attaggtttt attgtaagta aataacaaat ntagactatt aaacaaaatc aacgaagaaa 120
actcaaatac ctgaatatcc tcccatatca aatccttctg agcagtaggg acttcctttc 180

agggtgtcata tgtcacgtcg accttatcac gagcgacaat ccctaaatat gtttttaatt 240
 tcttcttgtg gggaccgtcg gccttgccgg tagcaggatc aacgttgacc acaagtcttt 300
 ctgccccagg tgggtctagt gccaatgatc atagccgtgt cgccttgctg gtccgcttca 360
 acgtagatgg agacgctgat gcgtctgc 388

<210> 33455
 <211> 376
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33455

agcttgtgca gatctccagc tccatgtttt ggggtacttc anacagctac acacatttca 60
 tctgtggttg gaaccataaa tccaaagggg tcccaaacca atattagtag tgatggcgga 120
 gcanaccaat catcattaaa atcaacggan agattagaag acatacaaag gaaaaaaaga 180
 agcaagtgat agagaaagtt atatggngcg tgcctgacaa aatagaaacg gtgaaataag 240
 tgctntacag atatactcac cttgtacttc caaacacggg gaaataagtg ctttacagac 300
 atactcacct tntactttta ngtagatagc tangtttgtg taattgttta agtctgagaa 360
 tttgatagga atatat 376

<210> 33456
 <211> 414
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33456

ctgtgaataa ctatagacat agacattaag tgaatagtnt aactctcttt tttaaaatnt 60
 aaacataaaa atgttgaaac aaaatnttgg gctattttca attcaatatt tccttcattc 120
 tttgtcttat ccacccttt gtctgtttca tacttagatt gaggaggaaa caatcacttt 180
 aatctatgga agtgggtggac actangttat gttgattcca gtgggttacct acatctacat 240
 gtgcaattct ccaattntgt tcctactaaa aaagaaaaag aaaacagcag aaaaagtgtc 300
 ctgatcatgg aactgaaaaa atgtttttnt atcttgcagc tgctagccga taaacaatgg 360
 agatgaatct aatgccttca ctctttcggc cttttccgcg ctcacatttt tgtc 414

DECLASSIFICATION

```
<210>      33458
<211>      436
<212>      DNA
<213>      Glycine max

<223>      unsure at all n locations
<400>      33458
```

<210>	33459
<211>	398
<212>	DNA

<213> Glycine max

<400> 33459

agccttgact tgagtcacat agtgattata aatatgtgac catggcatga gtttcaacta 60
acaatcaatc atcaatcacc tttgaatcat ctatctttca atctttacaa catcatctct 120
caacatcttt caatcaatct ttcaatatct tttctataga attttctaatt tcatttctct 180
tcattctttct aaaagttttt tatcaaacact ttctcttcca agataagttc tttgttcaaa 240
aacttgtgct attcatcttt ttcatctctt tctccctttg ccaaaagaac gaaagactaa 300
ctgcttgaat tcttttgtgt ttctcttctc ccttacaaaa gattcaaagg actaaccgcc 360
tgagaattct tttgattctt cccttccct taagcaaa 398

<210> 33460

<211> 426

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33460

taagagagaa tgtggtttat gcaatgattg acctatgctt aagagataat attagaaagt 60
ttgaaatggc cactaaaatt tatgcttaag cgagatttat gtttaaggta agtgaaaatt 120
catgttgaac actttattac atgggtttttg aatgaattta attgaactta aatgtatggg 180
gattatgaaa ttgctacaat tggattctag agctatatgt taggaaattc acatttttaa 240
ggattgatca cgtgtgaaag ttaagattca tagtgtggaa tgcctcacat agcttatgga 300
actactangt ggggttctaa gtgtattgtt aagaaaatgg tgaatttata acataaaggg 360
aacttgtggt attaaagttg attgaatgta tacatgcata catgacatta catgtgggta 420
ggcacg 426

<210> 33461

<211> 385

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33461

agcttgtgca ttcaatatcc tgatgagggt gttccctatg ttctcaagac tggactaata 60

catnngctgc ccaagtttca tggctcttga ngtgaatatc ctcataagca tcttaaggag 120
 ttccatattg tttgtttcac catgaagccc ccaaagtgtcc aggaagatca tatcttttta 180
 aaggcttttc ctcatctctt agagggagtg gcaaaagatt ggctgtatta ccttgctccc 240
 aggtccattt tcagctggga tgaccttcag aggggtgttct tggagaaatt ctccctgca 300
 tctangacca ctgccatcag aaaagacatt tcangcatca ngcaacttag tggagagaac 360
 ttgtatgagt actngaaag attca 385

<210> 33462
 <211> 392
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33462

taaaanaata gtcaataaac aacttaagag agaagtagaa atacttggtc tatattagtt 60
 cactcaaata nagctacgtc cagctctcct ttacataact ataanaggat ccaataatca 120
 aaactttcat tacaactagg tattctatcc taccactctt ggctataaaa gtattctcta 180
 tgtcactctt gacacacct tagactcccc ctgaatctaa gaacacttaa gtatggttta 240
 aactgagca actntngatt ntctcaaaca aaagtttgaa tgaatacaat gattcaacaa 300
 cactcanaga gtggataaat agttaaactc aaatgcaaat aactttgctt agcaaaggat 360
 gaaaagaata agtggtgagt atatcgcca ct 392

<210> 33463
 <211> 397
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33463

agcttgcatt tctctcccat ggctgatatc anatctatga tggatatcaa gctttgctat 60
 gctactcaca ttcttctctt cgattatcat atccttcatt cttacatcat gagtgaacaa 120
 caacaagatc aatcactcaa tgtacgcagt ccttattact ttcattccggg agaaaatcca 180
 gggatagctn tggtttctcc gggtcttgat tcatccaatt ataattcatg gagttgatct 240
 atgcttattg cattaagcac gaagaacaaa tatgagtttg tcgatgggtc tattcgaaga 300

cctgcatcag atcatgaact tcatgtagct ggaaggggtg caataatatg gtggcttatg 360
gttggtcatt tagctctctt tcattagaaa aaatact 397

<210> 33464
<211> 429
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33464

ngataagtaa cctcatcctt actaaattaa gtatcttggc aacaaagata aatcacaaga 60
tcttttattt ggatgtattg ngggcagggt gaaattgana ggtaggaatt agaaagaaca 120
agaaaaagaa aatggatata aatgaatcat aataccttat cagagaatac atcatgcaac 180
taaaacacaa gggtagcata caaggagaaa tcataatttg cttcctttct tttcattcct 240
ttttcatgaa tatggatatct ttcattctac tagcttgaca tnaacagttt tttttttttt 300
ttttcgtgtc aaacattgct gacacgttat tattcaactt ttaatcccca caaatttttc 360
atatactgct agcttgaagc actgagtcag taccaacaat tcattagtga gttgttcaat 420
gtattaatc 429

<210> 33465
<211> 388
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33465

tatcttatcc ttatggcttg cctccggact tcaactcccc tgccactccg aaagatttaa 60
gccaaagccc tacttttgag gggcaactcc cgccttgtag cgactatccc gggcaagacg 120
atgaggaagg agatacccat ctcggccccc tgctccacct taatgatccg tccccacatg 180
aactacccca accgaacata gtccgccata tcccggcctc acccacaccg gtaaaagaat 240
ctgttccctt cgcggaagat aatggaaaga tagaggcgct tgaagagagg ttaagagcag 300
tcgagggcct tggcaattac ccgttctcgg atntaagcgg attatgtctc gtgcccaata 360
tcgtcattcc tccaagtgc aaagtacc 388

<210> 33466

<211> 358
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33466

tccattgtta aatttcgagc gtctcgatat attatatact ctgaatcgga cctctgaggg 60
 aaaagttatg accatttgaa ttgctcaaga gctntcatag ttcaatttct agcgtctcga 120
 tatattatgc gcctgaatca aacctccgag ttaaaagcta tgaccattng aatntctcga 180
 gagcttccgt tgttcaattt cgagcgtctc tatatgtgat gcgcctaaat cggacatccg 240
 aagtaaaagt tatatccatt tgaatttctc aagagcttcc gttgtcaatt taagcgtctc 300
 tatattgatg cgcctaaatc ggacatccga gttaaaagtt atgatcattt gatattcg 358

<210> 33467
 <211> 338
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33467

tcttcttctt ctcatcacia ccttaciaag aagacaaata gctaccaatt cattgcacct 60
 taactctatt cattcattca tattcatatt agtaaaaagt aaaaaatcca tcatccctta 120
 caataaaaag cagaagggga tacaactatc acagaactaa tctactttac ttaacaacc 180
 tcttttgaat cctaactata gaaaatcaaa atcaggacct gatataacaa aaagaaccaa 240
 atcaaaattc cacaggttgt ctaagaacac aactgcaatt agcaatcttc ctacaagctn 300
 ggcatattac ttaatacaac caacatcatg ctacatga 338

<210> 33468
 <211> 408
 <212> DNA
 <213> Glycine max

<400> 33468

tgttgtaaac ttccttgaac atgtgttgaa atattcgttc ttactgccct gttctgaatc 60
 tgtgtgctaa gctatgttcc ttgagttttt gagtgttaaa atatatgatt atccttatat 120
 ttttcttaaa taggagtttt tttagaaaaa gttatgaata aaacaagttt tagaacattt 180

<210> 33471
 <211> 397
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33471

agcttggttaa tggatcaata ttctaatgt gaaactaaat gtcttgaggt tttcatgcag 60
 gcatcttatt cgtgaatttc aagcaacccc cttagataac tcaatataaa agtactattt 120
 gtcaccttat aaatgtgatt gtgagcagcc acaatgctca naagtcctcc taaaaaggaa 180
 tcagctgctc cagttgtgtc aattgcttcc acctcaaaac cagcaaccca tcctttatag 240
 tcctgtgcaa caataaggaa catctatatg attaaacata actaaccâat nttggattag 300
 caaatagatg ggaggaaaca tttagctcc atttntatgc atttaggatt agatatttac 360
 actaaaatag tgtttaggac ttgcccctg tgactga 397

<210> 33472
 <211> 326
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33472

tnctgaacag attgatcagc tgtttcatatc agtctagtct gattgtctcc tttatcatca 60
 acatcactgg ccttggcatt caaattctca atttcacct gttcttcac ttcattgact 120
 gtctccaatg agattgcttc tgtcgacaaa aatggagtgt gctggtcatt tttctcccca 180
 gaataatcct cataattggc tgcagaacct aaatggtcgg aaccatgata attacttctc 240
 aaacatcttc tcattcttga tgaacttttc attaaatcta gcttccagaa aacctattat 300
 ataatcaaat gtttagttaa tcaaat 326

<210> 33473
 <211> 412
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33473

agcttcaaga attaattggc tcatcaaact acttgttccc cgaaggcaat tcaattaata 60

ggcctcccat ttttaatgga gtgggttacc actattggaa aaccgcatg caaatcttca 120
tagaggctat agatttaaac atttggaag ccatagaaat agggccttat attcccacca 180
tggttgctag aaatacaaca atagaaaagc atagggaaga ttggagtgaag aaagaaagaa 240
gactagtaca atataactta aaagccaaaa acataattac atctgccctg ngaatggatg 300
aatactntan ggtatcaaac tgtaaaagtg aaaatatatg tgggataccc tacaagtaac 360
acatgaaggc acaacagatg ttaaaagatc taggataaac acattaactc at 412

<210> 33474
<211> 429
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 33474

tgtacgcaca tcgttcgcgt gtatgatatc cactccacaa ggtttgaagt agaggagagc 60
ttcaacccta taacgcaacg tggcagacaa aagtgggcag taaacttgaa tggtcgtcat 120
tgtcaatgcg gaaggatttc tgcgcttcac tatccatggt cacacattat tgcagcttgt 180
ggttacgtga gcatgaacta ctaccaatat atagatgttg ttatacaaaa cgagcacatc 240
ttataagctt actccgcaca atggtggcct cttgggaatg aagcggctat tctccttct 300
gatgacgcat ggacacttat ccctgaccca actacaattc gtgcgaaagg tcggccaaaa 360
tcaacaagga taagaaatga gatggatngt gtcgaaccat ctgagcaccg aacaaaatgt 420
agtagatgt 429

<210> 33475
<211> 371
<212> DNA
<213> Glycine max
<400> 33475

agcttgccct atagagatcc atgaaagaca aagcggctga aggaaccaat tccgcgtcct 60
gaatatgaca gccatcattt tatgagcgt gatcaccaac atcgcttcga cgccatcaaa 120
ggatggcat tctccgggc acaccgtcc aacttaagga caccagtata ctgacttcca 180
tgaagagata gtttgccgc tgtgggcatt tttagttacc cccatggcca cgttcgacac 240
atacatattc ttccagtcta tgcgcatgct tggcctatag acgatggcgt gcgagatatg 300

cgattctggg cgacgcgcca gtggatccct ttctatgcgg atgccctcta ccacgtcctg 360
gatatccttt a 371

<210> 33476
<211> 402
<212> DNA
<213> Glycine max

<400> 33476

agctttaatc tgtcatatct ttctctgaac tctgatactt gttgagttct ggcccagtg 60
cccctattaa tgtacaaaaa ttagactctt cttgttcaaa gaaagtcttg gtcataata 120
tcaatttgag ttgaggtcca cattattggt atgctactaa actattcaat agtaattcat 180
taaccagggg aaaaaattat atattcattt atgaattcgg aattaagaag gaactgattg 240
cactgcaaac ttacaaaggt acaagatatt tgatcaatga tgaaggcttc cacggtgcac 300
tctacttgat cgatattggg caaaacgacc atgctgattc atttgccaaa aatctgtcat 360
atgtgcaagt catcaagaag atcccagtag ttataactga aa 402

<210> 33477
<211> 531
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33477

ctctccacc ttcatatatt gcacataata aatcacacc taaaatttcc tccagcaccg 60
gcgnntttga tcttaccctt acgttacant actcgtaccg agacctctga tgcactgcag 120
catgcagctt ctatcttata ttgctatata tagggggaga agtgaataac aataggggtc 180
acgcacctta agcactatct ctatcctctt gagatagccg acgaaaatta ctctccgtga 240
acataatcca agctcgagcg cttaccacaca cccccgcac gtttcctgag tcattaggcc 300
aagatattaa aaagcccctc caaattcatc agctcgaatt gagatttctg cgggtataaca 360
cagcctacct acctttaacc acagctccat aattccatct atgtacacgt ggcggccaca 420
ttatgtatca tgttcaacta ttcccgttcc attcgttata tacccttgt gacggcctat 480
accactatct aagctatcct cgctatacca aacaaaataa cttcacccgtc c 531

<210> 33478
 <211> 391
 <212> DNA
 <213> Glycine max

<400> 33478

agcttatgtt gtgatttctc atgtcctcta ccatagtaca atcgaactga agatgcgtct 60
 tatattaaat atttgaatct tttattcatt gtaaacctaa ttccaactga atttagattt 120
 taaaatttga tatacccccc acattcatca tatattttta cttttattaa attttaaaga 180
 tattgtaacc ttaatcaatc ttaatatgac tatgtctttt aaattataca ctatgataca 240
 tctcattaat aaagaacata gtgcttgatg tatataaatt atttgcatac ttaccttttc 300
 aattctaaaa gtgtggtgtc tttgatctat tcatatttac tataatacca tacaatattt 360
 acgattaata atcaaaacat ctatgattaa t 391

<210> 33479
 <211> 365
 <212> DNA
 <213> Glycine max

<400> 33479

gatccaaact ccagaccagc acacataccc gctgctattg ctccgctatg aatataccat 60
 ctgtgataga gcgggaagaa cctatgccat tgtccatgca ttatcgctgc cccccgcgaa 120
 gcagcagcgc acttctactc atatcgatgc ctcaactcgc ctctcctgat gatccttgaa 180
 aagaatcggc atggcaagcg aagaccaaca tctacataca caatgcacaa tgacttgctg 240
 aacatcaagc taccattgtc cataatctat cctgtgtaag gacggaaatg ctcgcatcca 300
 ttgtccttat cagttatatt acctaaccce tcaacacaac cgaagctatt tcgagacgca 360
 aaccg 365

<210> 33480
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 33480

agcttgccctc ccagctcgcc caggcgagca gggttgcttc ctccagaagc aacagccttc 60

tggaggaatc ttctggaggg cccaagtggg cctggttgct atttgcaccc ctatatttac 120
 taagtacacc cctgccttt tctggtgatt ctttttcgta aagttacgaa aacttacgaa 180
 ttctgtaacg atacttggtc tctttccgca atgttaccga accttgccga ttacataatc 240
 atcccatctt ttgacttacc gaatgttacg gaacctcact aattgtgcaa cgatgcttcc 300
 atttgatttc cgggtgtgtca cggaacctta cggattgtgc atcaatatct tcttttgtct 360

<210> 33481
 <211> 389
 <212> DNA
 <213> Glycine max

<400> 33481
 agcttggatg gattgatggc gacccggtgt tgagaggaac gaggataaag gctacatggg 60
 agtacgtgag ctcagttgaa tgtgggcaac tagggatggg ggatttatgt gtgatttgtg 120
 gatgtggatc ctgacttgca ccattaccca atgccaccta ataccacata tgactagtac 180
 ccataatcc tacaagcttg aagtgagaaa gtgtggaaga gtcagtcttc ctacttttat 240
 tcgttggcaa cagagtggta cctgtagata tgtcgtatgg gtcatgacac cttgtggacg 300
 tcacgtgggg tgctattgcc caataccaaa cttgaccaat ctcgaccaa cccgggcata 360
 gtcagtcaat gagaacctgt gatgtacct 389

<210> 33482
 <211> 216
 <212> DNA
 <213> Glycine max

<400> 33482
 atcttctgta ttcaatttcg agcgtctcaa tatattacgg gactcaatca gacatccgac 60
 taaaaagtta ttgtcgtatg aattagctcg gaggttcaca attcaatttc caacgcttta 120
 atatattacg ctctcactca gacatccgag caaaagttat tgtcgtttga attatctcag 180
 agcttcacaa ttcaatttcg atcgtctcga tatatt 216

<210> 33483
 <211> 286
 <212> DNA
 <213> Glycine max

<400> 33483

agcttcggta gaaagtgatg aggtacaagc cctaattgga gagcttgaaa gagccccgggc 60
agtctatgag aagttcaagt ccatagccat caaagtctga aaagagtatg atgaactaag 120
ggacgtccta tggccacagc tgaagccttg aacgagaaac caagaaggct cgaaggaag 180
aacacgacct aagcaaagtt tttaggggct ttataggga tcaatagtga gctcaagctc 240
cgaagatgtg aatggaatca tcacgggtca caggcctgat cttgaa 286

<210> 33484

<211> 394

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33484

agctttacat ggagctatat cagttcacac aatatagttc aaggaccaa aagaaataat 60
cattcaagct caaagtgggc aactagggga aaacttatca aaggattcac aagtcttaag 120
aaagcctatc aaggtctccc ttttcacaaa attcacaatt attcaaggat atgtatgtca 180
aaacagagaa tagaatactg ctattgaaag gatcaattct cacacaataa gagaatcaag 240
gctcanaact cacctatctg agggttaact taagaatagt tcacaatcat gcatgcta 300
gtccccctcc gaagaaactc caattaccca ataaacacat tacttttggt atcaataaaa 360
ttctaaaccc aagacatttt cacagtacta gaac 394

<210> 33485

<211> 383

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33485

agctttgcat gtttagtgat tctagagaaa gaaagatgag tctttgaatg gttgtgagat 60
cctatagggtg aaggagacat cctcaccact tgtatttttg caatctttca tcttgttctt 120
ctcttttttg taaagcgcgc ttctgggtta tggaaagcta aatcctatgt tggatcttct 180
ctatagggtac ttgatgtaaa tatcttttta tctatttaat gatgttctgt gtgttctcta 240
tgctatctgc ttttcattct agtatgcctc taccttgatc acatagatgc atgctttggt 300

anggtcattt cacagtggaa actgggtctga ttcttatgac cttgatacga cacggctaaa 360
 ttgttggtact atcacgagga atc 383

<210> 33486
 <211> 390
 <212> DNA
 <213> Glycine max

<400> 33486

agctttaact taatcaattc aaaagccttt tgtgcttggt cattccaccc aaacgcaccc 60
 ttcttcaaac attcgggtcat aggacttgct atagtgtctaa aattctggat aaagcggtcga 120
 taaaatgatg caagacaagg aaagatctca cctccgaact gttgtagggc tcggccaagt 180
 cttgatagca tccacttttg tttgatcaac ggatactcca tcttttagaca ccacatatcc 240
 aagacacacc acactttcaa ccaagaaatc acactttttc ctctctccat agagttggtg 300
 tgctcttatg gtctcaaata tttgtttcaa atgagtgaaa tgccctctta tagatttgct 360
 atacaccaat gtgtcatcaa gataaacaac 390

<210> 33487
 <211> 376
 <212> DNA
 <213> Glycine max

<400> 33487

cgctggtgga atcttgaaat atatgctgaa tcgaatctca tatattgtgt gccgtgtccc 60
 tcttagagat tgattcaatg aacttcacga tctattgcct gtataaggca acccttgcct 120
 ctacaacctt gacttcaggt cgtctacaag gtgcttcgag gctgatacgg ctctatgccca 180
 tctagcccgga tatatatctc attctcaatg agaaccattc tgttttgag tgaagaaatg 240
 ctgccttcaa catgcctatg gtcataatgg ccttaaacct tggaagtgtt gctgtcctgt 300
 ctgctactcc acattaagtg atgggtctgac gcgttctact aaacgaaaga ttaatgcttc 360
 tctctttgac tgcact 376

<210> 33488
 <211> 326
 <212> DNA
 <213> Glycine max

<400> 33488

agcttgattt atgggtataca tgatacatgt cacggcttgg gttgagtcaa agataaaagg 60
 gatgccctac attatttcca tgacacatat gcaaaaatga cgatttggaa attttatgca 120
 aaattgggtt ctctgcacct atgctgacac ttagtgtcaa atttttatgg tcatgtgatg 180
 ctaaggctca agatttattt cctctatttt agtcaaccca acgtttccaa aatatgttct 240
 tttatcaatt tgagcattaa tccgagatca tttgggcgtt tgggaaatat ttcacagcat 300
 ttaaccttta tgagtattac acattt 326

<210> 33489

<211> 332

<212> DNA

<213> Glycine max

<400> 33489

gagctaagcg cgccatgctg tgctaagcct attctgcaca cagaaatggg ttttgtgtct 60
 tcgagcttaa tgccagcctg ctgcgcttaa cgctgagta aaaccatac agcgcgctta 120
 gctcacatgt tgcgctaagc gccagctcaa aatttcagtt tatttttctg tttgtgaaaa 180
 taacctgtgt gaatctcttg tgtttatttc acatttcgca gatggcatcc cacaaaagga 240
 aatctctctc tacacctacc caagtcagat ttgataggtc catatttaca tctctacaag 300
 cttgggagac atacactgac attgtggtgc ct 332

<210> 33490

<211> 404

<212> DNA

<213> Glycine max

<400> 33490

attcttttat ttaataaaga agcttgagag atatgcaatc tctcacagaa actatgatgt 60
 cacacaagtt cactcgtcaa ctcaaacaat agatcaaagc ataaagatgc aagttgaacg 120
 acccggcaca gcagctgacc ttaaaattga gactaaaagt tgcagcaaag gatgcttcaa 180
 aggttgatcg aaattcacgc aatcacagca aaaatatcct tgaaaaaata agaacgatga 240
 tttggattat aaaggagagg aaggttacca gagagaggag aagataaatg gaaaggaggc 300
 taatcgattg gagtatgtat cgtcattggt cacaacttaa taaaagaaga aatggggttg 360

ctatgtcaaa atagaaatgg tctgttagtc cattttaccc tgac

404

<210> 33491
<211> 493
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33491

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cgtcncggga tccttagagt cactgcagca tgcaatcttg ttatttatac ctctccttcc 120
tgatggatag agcatgagac caagcatgat aaagattatc ccgctccata agtttctgaa 180
catctaaact gtggcacatg atgagaatgc actgtatgac cccgatcacc ctcttagcgt 240
caaaccatga agatattcaa tcacttctgt gagcttgagg cgtttgtctt gatccataca 300
attcttgaca gccttgagct cgtaatttc tagtctgtga agagcattta tcatgcacaa 360
tatatccac catcctgtga caaatgctct gctccgaagg ggacacaaac acaagtccaa 420
ttcctttaa g gatgttaca tgctctcaat caatgggaac attcctgatg caatcccccg 480
cttatcatta tgc 493

<210> 33492
<211> 356
<212> DNA
<213> Glycine max

<400> 33492

agcttgcttt attacaagag aaagatcatg tgactagaat tatgaatgat aatgttagtc 60
agtttgtcag attgatcgtg aacgaatgca ttatccataa accggtgaga gtgtgatcct 120
tatcctcgac agaaacgact atcatcagta ctgatttgtg catgaatctc tgaagtatgg 180
actgaatgct tgatattaat aatgatgaag gccatgttcg attgtgatag gcacttaccc 240
aaaaagctaa ccatgtgctt aaatgattta tcccttgaac ccaattttga gttgattgat 300
tgactgattg attggaactt gagcctatac aatcttaatt cttgcttcct tgtctt 356

<210> 33493
<211> 397
<212> DNA
<213> Glycine max

<400> 33493

atatcagatt cttcttgcct ggcactacaa aacctctctg gtgggtcata tagatgtctt 60
 cctttaaaat cccatgccag aatgcaagtt taacatttaa ctgggtccaag tgaagattct 120
 cgctactatg ctaaaataac tctgatggta gtatttttac aactggaaag aagatctctg 180
 tgaaatcaaa tcctttgttc ttgtgaaacc ctttcaccac aagtctcacc ttgtatcttc 240
 ttctaccgtc agaatctttc tttagcctat agaccacct aatctgtaac gcgttcttcc 300
 ttcttgcaat ttagttaag acacgtctat tcttctaaag gatgcatctc atcttcatcg 360
 tagctccact catagtgtca tccctgtgta cctactg 397

<210> 33494

<211> 406

<212> DNA

<213> Glycine max

<400> 33494

agcttctact tatgtgacag ggcgggcttc cttcactttc ttgcctcaac cgcgagcttt 60
 gaccaccgtt ctttcttccc acaatgcttc tctctatata cgctgagtg ggtttatagc 120
 ctaaaccata cttccccgac ttcctttggc atttatcaac tagttatgcc gccgttgtct 180
 ttgcctaaac ccattccggg ttcgtaaccg ttccccaaca taacacgggc catcattact 240
 gctgcatcgg acaggcaagc ttgccagag aaggagtcca cgaggaaat gcttaccacc 300
 tcaaaagact ggaaagcggg ttctaataac tctctgcgg cttccacata aggcataaag 360
 gatgggcagc tcaccaagat gtcttcttcg cctgatacga tgacca 406

<210> 33495

<211> 411

<212> DNA

<213> Glycine max

<400> 33495

agcttgcatt ctcattatca tcttctgatt tgacttccaa cactctaact caatttctta 60
 cggtgtaaga aaacaaagac ttcagaaacg cgtgaactct ttcgcgggtt ccaagaaacc 120
 agaacatcca ccgtaactcc agaacaaaac aacaaacaat aaaaccccag aaaagacaat 180
 tcataatttc atattccgcc aatgacctc atccatatat tatattaata cgcactcatt 240

aacaccaaaa cgaaaaataa cactacgaga actcatagaa tagaacaatg aacaaaacat 300
 taaaactaaa agtttgatgt atatgcactc tccattctgc tgccgcggtg tctccgaatt 360
 aaattaatta atttttaata tcattgtcat catagtcagg ggtggaccta t 411

<210> 33496
 <211> 328
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33496

agcgtgagct gtgcgttaag ctctcgcaact aaccttgagc ggccgcgctaa gcgagctgtc 60
 cactttttcc attnttcttc aaggtttttt cttccacttc ttgcctcaat tttccttcaa 120
 aacacttaaa tttttccctc ttgacttcta ctgatcaaaa taacaaaaat attaatttct 180
 tcattatttc attaaaaata ataatcaagt caagaaatta tactcattta ttagtcagaa 240
 tagactatta aattaactca tatttcacag ttatcaacaa caattgatta atttaaataa 300
 aagccaccat tgagtgcata gatcaatt 328

<210> 33497
 <211> 420
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33497

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 atttacctca ccctctatga aacgatgacc actgtcccaa tcttagtggt acctaaccg 120
 aatgaaaactt tcgtcgtgta ttcccatgcc tccacgatgg gtatcgaggt gtgcttatgc 180
 aaaggggaca tgtagcggcc tatgcttgtc gaccgcttaa catacatgac aggaatcatc 240
 ctacacacta tcttgagcag cagactgtat ctttgatctt atacttcgga ggcattacct 300
 ttatggatct cactgtagag cgttactgac cataacagcc tgagatattt gtntgatcta 360
 aaagaactta acattacgca cagcgaatgg ttacagttcc ctaaagatta cgactttccg 420

<210> 33498
 <211> 202

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33498

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 cctcatccaa tatctacaac gcggncctttt tatgtagctt attcnttttg ggactttcaa 120
 ttaacacaca cagtggccac cccgacgaga tcttgcgagc cttctgggag gaaggaaacc 180
 atatcttttc tggggatctt at 202

<210> 33499
 <211> 306
 <212> DNA
 <213> Glycine max
 <400> 33499

agcttggttt taatttggtg tatggtaagg tatatgtcca tgtctaggaa tgacataatt 60
 ggtttacttt gatgggctaa ctcaaaaatg atgggacaag tctcgtatat caacttggtat 120
 aggagggatc cctcgctttt gtgcgggcca tatgattttt ttaaaaaatc tatgtgaatg 180
 ctattatgtg ctcaatctta agtttgctac tatgcatatt ttaacagctt ttattgcttt 240
 tcaaaaatat aaatacatat atattattat tgtcagctca tgttattaac tcaattcctt 300
 tggtag 306

<210> 33500
 <211> 310
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33500

agctttctctt tccgttctcc aaattccacc gaatccaggg atcatactcc atagttcaaa 60
 gaatataaaa ttcattggccc agacaaaaat cttccgttct tcttgccatt caaagcacia 120
 tagataataa acccacacac cccatacctt ctcccttttt ctttttcttt attttatgtt 180
 tattgtgaga gaaagaaata aagccgagcg ttgagaatcc cgtctctgtc aacttncacg 240
 gtccaataat ttcgattcag ccattcctgt tctttctctt ttcttcttcc tccgctctctc 300
 acttcttctc 310

<212> DNA
<213> Glycine max

<400> 33503

tctatggacg tacctcgact gaaatcctct gatagccctt ttgagccatg ccacccttat 60
cctttggtga agctcactac acccctctta gcgaataact ctgacatcta cttatcccc 120
ccgcaccccc gagctctgac acagcctggg taaaagtggg gcggttacag cctccttgga 180
taacatgtaa tgccgtgccc gctacatgat ctattccgac ccttactgca tgaataccgc 240
atatcgccac actgtcgccc atgcaaaatc tgatgtcgtc tctcaccggc ttctcacgat 300
gtacaactcc acgcaacgtc ccccatctca ccgaaatgca ccacactgga cgaataccac 360
ctgactgaca cataatcgag agattctgcg 390

<210> 33504
<211> 366
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33504

agctcgcatc ctattacaca agtcttgcaa ttgattacct aaagatatct tcagaaaatt 60
atttccaaga gtcacatctg ttcaaattgg ttttacatgg ccatcaaagg tctatttata 120
tgtgactagg aacacacccc cgctgacagt ctttttaaga acacaaatgt attatttctc 180
ttataaagaa aaatcttctt atcctcttaa aaattccatg gccaatcac tngcaattca 240
ataacgaatt ttttgagtgc tcaattgctc aatctatctc tttcaagaga gaattcttct 300
cctcttcata ttacttctaa aaagggatta agagaccgac ggtctcttat tgtatagaaa 360
tctgaa 366

<210> 33505
<211> 372
<212> DNA
<213> Glycine max

<400> 33505

agcttatgtc tttctttagt tataacgtta gtttctctta agtttgtgag tgtttatata 60
gaacgcataa attatctttt gagaaagata acgcgcataa tgttaagagt aattaaacac 120

tctgtgtagt gtgaagctcc tccaatctat catcttatct aaattgagac gtattgaaat 180
 tttgttgatt cttacaacaa ttaccataaa agtcatatct aacataattt ctgattgggt 240
 aaccgcatga gcatatacga atcatactct tgctattgggt taatcttaac ttataccaga 300
 aagtcgattc atcttatctt attcttttct tttcagtggt cgttcacgag cttatccgaa 360
 tcggactttg tc 372

<210> 33506
 <211> 504
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33506

agtncaaagg cgggagcnga atttgaaacc tgaagcaatg cgaacacacg gcgaatacag 60
 ctcgtgaccc gtgatactat aactcgcacc tgtaagcatg cacttctttt atttttatac 120
 aacactgaac ctctgattcg acttgccggt catgtggccc aaaacatctt acgaaggggg 180
 gttgaatcaa tcatattgca tactattccc ttaatgaaaa tcttatttta atttccccag 240
 cactctgcac gtcctataa aaaactctta catgattgat ttcaaagaac aaactgaata 300
 tatacatcac gctatagtaa attgaccacg ttaatgtcat gaaaagtgcc tacttgata 360
 tatactgggc tgtcacaccc ttgtgccacc ttcatgcccc agtcaacctt tagcaagtct 420
 attagtttgc aaatccttta caatgttcga cacacaagcg caatcctact ttgtctccga 480
 tgtcttataa caagagaccc tagc 504

<210> 33507
 <211> 562
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33507

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 tcacaccctc gataacaccc gcgcgaggtt gatttgatgc gtggccatca cggccaatng 120
 acatggaccc gggaactgta agtcaactgc agcagcaact tcaatttatt tttcatctcg 180
 aacaacacaa caaacaggtc acctcttata tacggcccat aacaaatccg cgccagctat 240

aataacctcg cacaccgcg tgagaaaact aatctactgt acgcgcccc gcacccata 300
 ctttgcaaa actataatgc aacttgcaaa agtgcaggtg ctgttcgatc tctaccaaac 360
 gcaatgtctc ccagtatatc ataccgaca tgtaccctca acgtcaacac cactgccatc 420
 tgtcacaact gtcaatgcac atgctccgtc acacaacata aaacgcacat catacataga 480
 ttacataatc gcacctccaa aggcagaccg acacgtcaat cacatagcca aagtgactct 540
 ccaactgcaa attcgacga cg 562

<210> 33508
 <211> 330
 <212> DNA
 <213> Glycine max

<400> 33508

catcgcttgc gtgtatgata tccactcgac aagggtcgaa gtagaggaga ccttcaatcc 60
 tataacgcaa cgtggcggac taaagtgggc agctaacttg aatggccatt attgtaaacc 120
 cgcacggtat tctgcacttc atatacatgt tcacacatta ttgcagtttg cggctacgtg 180
 agcctgaact actaccaata tatagatggt gttacacgaa tgagaacatc cttaaagcat 240
 acttcggaca tgggtggcct cttgagaatg aagcggcaat tccttcttct gatgacgcat 300
 ggacactaat ccctgaccca actacaattc 330

<210> 33509
 <211> 344
 <212> DNA
 <213> Glycine max

<400> 33509

atcttcatga tgatgaatca agttgattca agtaggtttg atgatgaata agatgatgac 60
 aaaaagccca aagaatgatt tcaagattaa gacaacaagt tcaagatcga gataaatttc 120
 aagttttatg gcaacaaatc aagaagattc atgatcaaga gaagtttgat ttcaagattc 180
 aagagaagat gaattcaaga ttttagagaa gaaatcaaga agactctcca agggaagtat 240
 tgaaaagatt tctcatataa ctaacatagc acgttattgt tgttcacaag aggtttctca 300
 caattttcta agttactaga gtttttattt tctggatttg atta 344

<210> 33510

<211> 215
 <212> DNA
 <213> Glycine max

<400> 33510

atctttttgt tttattctat gcaccgtag aggttcacat tgtgtttcga gcatatatat 60
 actaatcttg tgtacctttt atacgcctg ttgacgtgct taaccattg cacttaagat 120
 cttttagctc actctgaatt agaatactgt cttgcgtgag tgatgtatcg aataatccat 180
 taactacgga taaaataaat tcctaccact tagtg 215

<210> 33511
 <211> 321
 <212> DNA
 <213> Glycine max

<400> 33511

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 atgaaactgg tcccttcgac attacaattt gggatgatct tttaaattga aattaccccg 120
 actattcatg gtacttgcca acaatactta tggaaactat gcaacgttct cattcctatc 180
 tacagcaaaa tgtaggtata actaatctca ttttcaatgc ctttttttct atggaatcat 240
 cttataccca cttatatctt ttttgcgca tacatcttcc aaaatctatt ctttcctatt 300
 actcatattc ttctcctcgg a 321

<210> 33512
 <211> 392
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33512

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 agaactgaag gtgattttgt ctcttattct gctgaagttt cacttctctc tctcattaag 120
 gtacacccat tcacctgcct tccgtntggt atagaacctg gccagtgagt tgttcttatg 180
 atgacaagaa ttttaagcaac aatgtaacag atgaatgatg aaaacatgca ggtaatggga 240
 tggttgatat agtcataaga catcatttct ctagctgatg aatgctaata agttgttttt 300
 ttatccaaat tagataataa tatttttttt ttatgaaagg aagatattct tatacttcga 360

agttatgaga cgaagatgat caaaatctat ca

392

<210> 33513
<211> 130
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33513

agctcgggta tgtccttctg attctgtcta tacatttatg actntatggc ataagatgaa 60
attcaaagat tggatctctt gttagttggtt attaatgaat agcttataca cttgtgcttg 120
agtgaacacag 130

<210> 33514
<211> 406
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33514

agcttccttt ctctactgt tctgtgtcgg gccagcaaaa ctgttgcagg tatctttgcc 60
tctgaatgaa cgttgtgctt attattatgg cctattgctt cagtggcgta gatcccataa 120
caattatgct tgcacccctt ttgcttccga gactaactat ttgattgtat gttctcttgt 180
tactaaactt ttgatttttg accggaactg catgaggcat gaaagtttca aagtgggttca 240
accacagtaa aataggatgg tcagtttatn tctgggttct atgacaagtt ttagatctgt 300
cttgattact ggaccattgg atgagcacc ttgtggtggt gaacaactag cttcattctt 360
ctggatgtgg ttatgagctt tcgatgctag tggatcttat atatca 406

<210> 33515
<211> 224
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33515

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tcagctcatt ttctcgatgc atagaacat tgacgttgaa ctgagttact tgaaggcgtc 120

ctgtgggtta tggtccttac cataattact tagctctgca tataactgc caaacacatc 300
 atataatagc attgacaaac actcttttat gctgtatcgc acgacggtga cacattataa 360
 tgcctatcca tccata 376

<210> 33519
 <211> 265
 <212> DNA
 <213> Glycine max

<400> 33519
 ttctatcggt tatatgcaaa ttgtacatga cactaattaa ggatgacgag tgatgacaac 60
 gggtgtgaaa aaatatataa attacactat aaagatatct atgcaaaacc atcacaactc 120
 agacgtgtaa ctctacccc aaacttacia atacctcaat ccaaactcac tatagatttc 180
 tataatcttc tattgcttga tgaagccaag tgctaaattc aggattgatg ctgcgtaatt 240
 tctgcttcag aagctctccc tgtga 265

<210> 33520
 <211> 221
 <212> DNA
 <213> Glycine max

<400> 33520
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 gtatttgcgt attgcaatgt ttggtttgtt aacttaatcg tgcattgatg ttgtggtgat 120
 tttttgctgg tggaattttc cccattaatt taccatgagt tctaactctt tggaacaaag 180
 ttacagaagc atgtgctgtg tgaaatgtac catttgcatt t 221

<210> 33521
 <211> 366
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33521
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 atatcatcat ccttggtgaag ttcaatacca tcttcaatat gcatgagata tctcgcaaac 120
 ttatctcccg caatgatcgc tgtttctcgc aataacgatc tttttgatag ctcatgaacg 180

agacttaaca atacatgcac aaatcatttg cgtccttacg catttcttga caataacatg 240
 tactcgacaa aaattccctt ctaataccat cactgtccct ccacatggaa catcacaatc 300
 taaaatatcc tttatgaact atccactgct cacaagcata tctatatgtc atgagtgtgc 360
 catccc 366

<210> 33522
 <211> 400
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33522

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 aacttggggg cctgtcttca tgatctttaa gtttaatgtg ctaagttggt tcaagtttgg 120
 tctttggcaa gtgtcacaaa gatattcatg acccgtaatt aataggaaag attcaacacc 180
 tataggatat gaagaaactt ttagcgtatt gctaaattgc tgatttctta atatgatgaa 240
 agactaactc aatgatgtct actccaatat caatgatata gagtcttggg aaattgaggg 300
 tttttgctta ctaaaattca aatactgaaa gtnttatttc cttaatatct tggttctata 360
 aagattgcaa taaacaagaa gaacagagac actcatcttc 400

<210> 33523
 <211> 318
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33523

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 catgattttc atccatggag gtgccgctga tgattaagga gaagaggtga taggaggcgt 120
 catccactag agaatacccc tggcacgaga agcttcacac caagaaagtg tcttggatta 180
 aaagcttaca gaggaagcga atcacacaga gaggcggggc gtgggaattg aacgaaatca 240
 tggagacaag atgaactctg aagtgtgtct cacatgttct acattcatct acattatgac 300
 aagtgctaca catgtttc 318

<210> 33524
 <211> 402
 <212> DNA
 <213> Glycine max

<400> 33524

ttttgttctg ttcaaacctg caaggcgcgga ccaaggtgaa tattgctacg cacatgccct 60
 ggtctcgaca tagattcata gtgtgcatat aggtttctta actcatgac atccagtatc 120
 tgatttgcg cccaccccat gtagtttcca gagtaagagt aactacaata gccatcacag 180
 caagctttat aactgggttg aacaaagttc tacacgggaa tcgtgcatgc ctcacccagg 240
 ccggctgcag gctggcttat ccaccaagaa ctgcgattgt ccatggacct aaagggtcat 300
 ctttgtgagg tctcgaccga atatcggttg ggacagtcac accgtacaca aacatcatgt 360
 gcgctatggg agactgactg gaatggaatg aatgacaata cg 402

<210> 33525
 <211> 386
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33525

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 ctcatgaacc tcgaatctgc aatggttgaa aacaaaacga aaagcaaatt aaaatctaaa 120
 aacaatatta tgaataagaa aactgacttg catgaaagat gtaacaaaaa tacctccaat 180
 gagggagaga agaacgcctt cagacttagt gaggaactcc cagaagagat gatccttcaa 240
 tccaagtctt cttgtgaagt aatcaagaaa agagagagag gttggagggt tcatcttcca 300
 tccaagagtg ganaggatca aaatctccat cttntaatac gtcttggctt cgaacaagta 360
 tctactcttc ttcacctaca caattc 386

<210> 33526
 <211> 402
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33526

agtctttatt tcagtggcac cagcaccagt gtcgggtcg ttaccaccaa tgactcgctg 60

gccaacaaaa acctgtccaa agagaaaaag tatttatatg ggatccaagt taaaaggtat 120
tcaatccaaa ccgaacggaa tatagtatnt ttatgggac caagttaaaa ggcattagat 180
gttaatttgt aattcttatt tcttagttgt tatagggtga tcaaaaataa atttttatat 240
tatttcttag gtggtatagt tgtaatccaa gttatactat ttttatatta ttccattctt 300
taagaattat gaagacagac aaataatatt tatctatctt tcacaaaaaa aaaacaaaac 360
actgggttat cacatctgac ataatggcca ctacaatgtt ct 402

<210> 33527
<211> 406
<212> DNA
<213> Glycine max

<400> 33527

agtcttcttg ttatattgta tgtcctctga caaatactgt gctaacgaaa tggaataata 60
agacaagtg gttacttaca taatcatcga cagtatatgc atttatcaag ccttggtggc 120
ggatgcatta aatacagttt gttagcaatc gctcttctac ttaatttaga ttcttaatca 180
atgtcttaaa atactagtta gcattttact tatcttaagc tatagtatat agcctcgtcc 240
tcattaataa ttggcagtag taaagcagta aatttacctg gagagtataa tggtgaaagg 300
aagggagaaa acgcatcttg cagtactcat tatacattca tgtgaacaaa attaatggaa 360
tggttgatat atatacagca tgtttcaact tcaatgcaaa taaccc 406

<210> 33528
<211> 405
<212> DNA
<213> Glycine max

<400> 33528

cttcttgcaa ttcttcgggt ccttgaagat atattaacac tttctttgca gctgtccagt 60
gctctattcc tggattactt tgatatctct caagcattcc aaccacaaaa gcaatgttag 120
gtcttgta caaccgcat acataaagct tccttaatga aatgatatgg aatgttcctc 180
atctgctccc tttcaagctc atttttaaga cattgattca tattgaatct atcacctctc 240
acaatagggt ccatgtttgc tgaacaatct ttaatccgat atctttctag aactttatca 300
atataggcct cttgagacaa gccagaatc ccttgagatc ggtttctatg gatctctatg 360

ccaatgacat atgctgcctc tcccatatca ttcatatcaa aattc

405

<210> 33529
<211> 334
<212> DNA
<213> Glycine max

<400> 33529

ttcttgccgt catttatgag ggtactttgt atcaatcaat gattatataa catttactac 60
agggtgactat actttgaact tatcttaatt tattgatgct attatgaaaa ttatataagc 120
aactagatgt cccgactagt aacaagagaa tatgcaactt gcaggggact taatattgaa 180
ttttggtgtc attatgtacc cctgttggtt tccaccattg gattatgcat tgagatttac 240
gtaatactat tttattttct attttgaata ttgcgatttc tccttggtat ttatctgggt 300
ttcctaccaa ttttcttact tgttcatcta ttat 334

<210> 33530
<211> 386
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33530

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gtgtgccatc gtatgttgag aatcatagtg aagaaaattt agcaccaaaa cgatctctca 120
gcaaactatt gaaagatcaa actttaggaa caaatgctt ttgtggatat aagaaggcta 180
aaacgtttac atgatccaag gtctgtata gattcacagc agcaagttga aacctccagt 240
ctctacctaa tgtaagtcct gctctgttcc agttctcaat ttgtccttcc aatgactatt 300
gttgatgcta tcatactcac tttcctgttt cctcatantt aatggttaac attcggcata 360
ttatgaataa ctttctttta tccttc 386

<210> 33531
<211> 235
<212> DNA
<213> Glycine max

<400> 33531

<210> 33534
 <211> 435
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33534

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 acaaactcta tcttctaatac gatcactcac ttaattcccc ccctttgttt ttgagttta 120
 aacttcactt gaagttaagt tatttaatta tatgagttct tgattcagtc ccaatttttt 180
 ctcccccttg gcatcaacaa aaagccaaag tgcgtataga gacattaaat catacacaaa 240
 ctcataatca tncaagcatt ttaatccata caacaagcaa ggaggacaat aattcataca 300
 taaactaagc agggaagata taattcatcc attaaactata ataaaatgtc agaataatag 360
 aaagtcaccc cagataacca nnattaaaca acctaattag aaagtaatat actaataagt 420
 gtatcaaata agtca 435

<210> 33535
 <211> 420
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33535

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 ttctcttgag ctaatgtcta atgctcatgg tcgttgaggc atttaatgct tacattaaat 120
 gcatgtattt tttcatgttg aaacaccatt ctggttgact gttgtgttga gcactatagt 180
 aaaaaccact tcctttgact aaaggacaat atcacaagaa ggggtcttga attgcgattc 240
 tatatcttgg tttttttaa tctttttcac actcaaacca agttttcctc cgaaagaaaa 300
 actttgtaaa atagataaca aattttcaaa aacacaatca aatgatgaaa gatgatntg 360
 ccaagcccaa gatatnttca aatgtataaa tgagaattca aaccctaggt caattaaagc 420

<210> 33536
 <211> 438
 <212> DNA
 <213> Glycine max

<400> 33536

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tcgagcccag tggcctacca cgtggcatgt ttgtagggtg gtttgtgaaa gctagtaagg 120
tggtcccaag aggatccctt gtctgagtat gagaaaggaa attctacgaa agggagttcg 180
ccatggaatt gtctgtcata atgacaaaga ggtgaatgga atgagaggag gaaaaaatgt 240
aagaggtgta tgaaatgttt caagacatgt attctgtaga gataggggga gcaatatgaa 300
cactaagctt tggagcttga agtagtatta tctatctaca tgccctaactc tatgcgtggg 360
attcgtatag attggtgcat ctcatctctc atcttctcat atgcatatca tgcattatca 420
tgtacacgca ggaacatt 438

<210> 33537

<211> 461

<212> DNA

<213> Glycine max

<400> 33537

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gcttaacgca ttctattcag gtatgcacgc ttagcaccta ttgcgcgctc aacacacgtg 120
acaactctcg agcttaacgc ctctcttagc gcttgtgcct tcctgaccg cttagtgcatt 180
gttgcgtgct aagcgcgagc tctgggctgg gcctttctga tttcttcttt ttcttctttg 240
ctatttctca ctttttgctt ttagcacctc cagtttttat atctgcagcc aaaattaaac 300
acaacatcaa ttctttaata tttaagcgca cataactact acataattat cttaaagaca 360
attttgcttg attttctact atcaaagtac aattatttag cacgtatcac tatatgatgg 420
atctaggaac tcacggtaa gattaccaa agctgatgtt g 461

<210> 33538

<211> 219

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33538

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actccgctgc cggcgtacgt ggtgacgttg agttggagcc ttggggagtc atcgacggct 120

tgagtctgaa cggggttggt gagactgttg aagttggaga tggatagatg aaagaataga 180
gagcgtggaa ctgaagaagc tccactcttt gtctatcgt 219

<210> 33539
<211> 363
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33539

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cctccgagaa agagatatga acagcaatca acgggagttc gtgtgagcag ttgataaaaa 120
ctaactaga atatattggt ctgccagaat cactcagaac aaaaaaatgc tttttccttt 180
ctctccatga aatggaagca tcattctgca ctttatttat taatgaaaca gaatatgata 240
ttacactata tatccagtgt catgccctct tattgcttga atctaatagc ataaacctct 300
gtatgagaac aaatgcagct cttaactgga atttcaaata tctcatcata gctataacaa 360
cag 363

<210> 33540
<211> 346
<212> DNA
<213> Glycine max

<400> 33540

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taaaaagtta ttgtcttttg aatctcttac aagcttccgt tttcaatttg caacgtctcg 120
aatatattac aggactcaac ttgacatccg tgaataaagt gattgtcaat gcaattgtct 180
cagaacttcg gatctaaatt gtgagcgtct cgatatattg catgactcat tcagacatcc 240
gagtgaaaag ttattgtcat ttgaatttga tacgagctta cgttatcaat ttggagcatc 300
tctcgataaa ttacgacact ctggtcggca tccgagtaaa aagtca 346

<210> 33541
<211> 463
<212> DNA
<213> Glycine max

<223> unsure at all n locations
 <400> 33541

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 tgtacctgtc gcaaggggtt gaggtttgtg ctctctgtct gaccaccata cagacctttg 120
 cccttccatg cagcaacctg gagcaattga gcagcctgaa gcttatgcag cacatatata 180
 caatagacct gctcaacctc agcagcaaaa tcaaccacag cagagcaatt atgacctttc 240
 cagcaacaca tacaaccctg gatggaggaa ttacctaac ctccagatggt ccagccctca 300
 gcaacaacaa caacagcctg ctcttctctt ccaaaatgct tctggcccaa gcagaccata 360
 cattctcca ccaatccaac aacagcaaca accccagata cagccaacaa gtgagggccc 420
 tccacaacct tcctcgaag aacttgtgag gcanatgact atg 463

<210> 33542
 <211> 395
 <212> DNA
 <213> Glycine max

<400> 33542

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 agcctgaaga cttctagttt ctgagtaacg agagcatcat gcagaaaata ataacagaga 120
 aacttcgggt gatgggtgct tagaggatag tcagaataga tgcattgctt caaaattgtg 180
 tcaatccagc agtcatattg aagtctttct cgatgaatct aatattcctt ctaatgatac 240
 tttgatgcct caagatacat ttggagggtg aaaatcttag caactacagg ttgagtcaat 300
 tccacatggt gcaattccag atggaatcca gcataagatt tctggaagta aactctggtc 360
 ttaacataaa cagatctaaa ctcaaagatc aaaat 395

<210> 33543
 <211> 467
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33543

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 acaacttccg tttgcccatac ggtttgtggg tgacaagtgg ttgaaaataa caatttagtg 120

cccaacttgc tccacaaagt cctccaaaaa tggcttaaga acttagagtc cctatcacta 180
 acaatgctcc ttggcaaacc atggagtctc acaatctcct tgaaaaacaa atcagccaca 240
 tgggaagcat catcaacttt cttacatgga ataaaatgag ccattntaga aaacctatca 300
 acaaccacaa aaatggaatc tctaccattg cttgtttttg gcagcccaa aacaaaatcc 360
 atggataaat caatccaagg atacttcgga attggcaatg gagtatacaa tccatgaggc 420
 tntaccttag actttgcctt tntacatata atgcaatgtt cacaaaa 467

<210> 33544
 <211> 440
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33544

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 tgtcggagga aggagagtcg tttctttccg aactaaagca tttgcatcaa ttgcaagtgg 120
 tggacttaag cattccatgt gcttgaattt ttccaaagga attgttcttt gacaacttaa 180
 gtgattacaa gattgagatt gngaacttca aaactctttc agctggagat ttcagaatgc 240
 ctagtaagta tgaaaatttt aaatcttttg cattggagct gaaggatgac actgacaata 300
 ttcactctca gacaggaata aagttgttgt ttaaaacagt tgaaaatttt gtgtgggaga 360
 gctgaatggt gtcaagatgt attaatgagt cgaaattgat ggacttcaca tttgaacact 420
 tatcatataa caacctacat 440

<210> 33545
 <211> 437
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33545

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 aacatattnt actaatgagt gtcttgaagt gtaactatga ggtgaaatcc tacatccgat 120
 agaaatgaaa aaattaaata tcatataaat gaagaaaaaa aaaattataa ttaagggttt 180
 gaattaaagt gtgatttaag tatacttatg tgattactct aaactcatta gtataaattt 240

caccgatgtt taccgcctca atttcataac agagtcaata tgccataatt gggatgatg 300
 catcagctca tatgatttag accaagaaga ctttctgttt actacaaatt aacttgcatt 360
 tgcagacaga aatggacca aaggaataat cagcaaagtt gggatatcta tattatagtt 420
 ggatgggatt acatact 437

<210> 33546
 <211> 443
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33546

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 gaaaaaaga gtagtgaatc aagaaatgag agaaaagaaa agtattagtt gagaaataca 120
 ctaagcttaa gagagttcat tctttataat acacaaagta cttgtgagac attataactt 180
 tattgtatat tcactcattg agtattgtaa agaactcttg attctacatc aaacttttgt 240
 ttgtgaaatt caagagtgc ttagtgaaaa aacaatacgt aggtgttctt agattcaagt 300
 ggagtctaca ggttgtgccataaatgacca taagaatact cataagccaa aagtgataga 360
 aaagaaatca agtctgatta gcggaatcct ttactagttg gtanagaaga actagacgta 420
 actcaggttg agtgaaccag tat 443

<210> 33547
 <211> 424
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33547

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 agaggggaagc tccccaagtt ccaactccga acgcgactcg accggccggt aattccaaca 120
 caacaaggaa cttccctccg aggcctgtgc cggaattcac cccgctccca atgacgtacg 180
 aagatcttct accatccctc atcgccaatc atttggccgt ggtaactccc ggaaggggtcc 240
 tcgaaccccc ttccccaag tggtatgacc ctaatgcaac ttgcaagtac catgggggtg 300
 ccccgngca ttccatcgaa caatgtttgg cccttaaata caacgtccaa catctaattg 360

<211> 431
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33550

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 taagcaggcg agctcctggc agtcaacaga taaaaggaaa acaagaccac aaagcaagga 120
 ggcttggtgt ggctggccag ctgtgaattt tgtgtaatat gtggattgtg gtctctggta 180
 atcgattacc aaaggtgagt aatcgattac aaggcttaaa attgaggaca ggaggctaag 240
 atgggtctctg gtaatcgatt accaaggggt gtaatcgatt accaggcttg anaacgaagt 300
 caggaaactt agggagcctc tggtaatcga ttaccagcct gtgtaatcga ttacacagag 360
 gaatgggtca ctggtaatcg attaccacgc atgtgtaatc gattacacag tgtattattg 420
 catatttcat g 431

<210> 33551
 <211> 464
 <212> DNA
 <213> Glycine max

 <223> unsure at all n locations
 <400> 33551

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 tgagaagaaa actcactcga ccaggagctt gtggaaaatg cccaaagaca attgtgataa 120
 tagggtacat ctgatgttag tcaatcatgc agactcctta ggattcctta tgaatccaaa 180
 ggtggccttt cttgtacaaa ttctttcggg atcaacccat gacatcaagt ttagcaaga 240
 tcaactgacc catggcatga ctctatgata ttaaatacag aaagtttcac ttggtcacat 300
 accaaagtgt gacaatccat tgccatcctt caatggggtg catgatcgat cccaaagcca 360
 tatattttct tgttgtgcag aataatcaaa gctnttaaac gacaagggat gaaccttagg 420
 atctaaatct caggtgatta attaaatggt gaatggctcc acta 464

<210> 33552
 <211> 273
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
<400> 33552

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aactaaatca tgagtggtaa tattggggag agacattaaa acctaaagaa gagtaacaaa 120
atacatcact caataactaa agcttttagaa attagcatcc tcttctttgc aagagaattc 180
caaatggcaa atgcagtcga gcgacaagaa aaaataaagt agccaacaga acaagagaca 240
tactaacctg cctgggagct gcgtgtctat cac 273

<210> 33553
<211> 444
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33553

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ctacttcggc caatccacca tacacaacat cccccaccc aaaatcgact tttccaaaat 180
gataatatat atctcaagtc tgacacaaca tataaacacct tacagttgcg aataagcatc 240
gatccttaat caccattaga tctgccacag aatgcatata ctctccgtc acctaactnt 300
tcactaggtt gattccactg catacccaaa tggatttgca caaagctatc ctgcagcggt 360
gactgctgca cggtatggaa cagcattgcc gtaataacct acgggtaact gatgatagaa 420
ccgtgcacgt gcatcgacta tgca 444

<210> 33554
<211> 402
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33554

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tgcaaaaaga aatgtttttt gtgtcttcga gcttaatgcc agcctgctgc gcttagcgcc 120
ttgagtaa attcataaggc gccctaagct cagcatgttg cgctaagcgc ccagtcaaaa 180
tttcagtttt attnttctgt ttgtgaaaat aacctgtgt aatctcttgt gtttatttta 240

cattntgcag atggcatcca agaaaagaaa atctccttct acacctaccc nnagccagat 300
 tgataggtcc agaatcacat ccctagaggc ttgngagaga tacactgaca ttgtggtgcc 360
 tcgaaagcta ctaccagaga ggaatgtggt agtttattac ac 402

<210> 33555
 <211> 501
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33555

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 ccataccctg tggcccacct ccaactgagc tcacgtactc ccatgtagcc catatccccg 180
 tttctctcaa caccgatcc ccatcaatcc tcccaagctt ccacaacatc caagcaaac 240
 aacattcaaa tagaacaagc tatcacagcc aagcaaaaca gagcaaaggc agacaactct 300
 gccaaaacgc caaccaaadc acagcttttc tcaactaaag accccagtaa caattccctc 360
 gttccggttc atcaaccgtt ggatcgactc gaaaanttta ctagaagtct ctagtactta 420
 agcctacatt gtgaccgttg ggatctacta gcaaacatcc agaactcatt ctgtactgct 480
 cttcccacag ccaaccacac a 501

<210> 33556
 <211> 459
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33556

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 atgaacacgg aaaacaagag ggaaaagata agggttcctt atcattgaac tagccctcaa 180
 actcaactaa agcacaacta ccaagtcctt tgagtagcgg aattcaaggt ctcaagctct 240
 ctaatgaaag gttatcttgg agagagagaa gaaagtgaag tgatagtatt ctaagtgggtg 300
 gttcagactn tgaactcttt actttgnagt tatgactctc cctattnctt ctaatcacac 360

ctcttcactt gctaaactca acccgtccca tccctatact caagaaccac tcatctcgat 420
tgaacaacca gcctcatcgc tacggatcat actctaate 459

<210> 33557
<211> 450
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33557

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atcccaattn tgcaaaaatc atattcatat atcattgggg catttcaccg agcactttgt 120
gggggcacgt ttggacacaa attgcaagag aatagggaca atgtggcatg cctcattgct 180
tcagaatata acctaggctt aaggcctttt cattcaaate ctcaattcaa gaaaacaagc 240
accaaagcaa accaaaactg cctcacaat ataagcatgt tctcacaatt taaggcacca 300
aaagatgaag aaaacacatc aatgggaagc aaaaacatca aggatggaat acttacttgt 360
tggagtgaat tgaaacacca aaaacgaaag caaaacgcga tcaanaatgg cttangggag 420
caagaaaccg caagccttcg tgtctttatc 450

<210> 33558
<211> 438
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33558

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tatatactac tctagaaaag agacaaaata gctttttaca cttaatttaa ccagaaattt 120
gaaaaaactt ttgaataaaa ggcattgacta attactgttt actaatgta cacgtaaata 180
cgtttttcat ctctcanaat atgacgggtt tttacttctt ttttgctgga taaacgggtt 240
tttactttta tctttatata aattaaattc aatntcagtt tttatatntg acaaaaaaat 300
gatatgaatt tatacgtcca tcaggaactg aaaagaaact aaaaactaat gtattttcaa 360
gaatgataat aattttcatt tatatataat atagttacaa ttcatttgaa atgatgatat 420
acttaacttt atccttat 438

<210> 33559
 <211> 466
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33559

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 cgagtacatt ggatttggtta cgaccatgct ctctgattc ttagctggga aattggcgag 120
 tggaggaacg ccccgacatt tacgcaacga gcataatgta aacctttacg gttttaaaaa 180
 actttatagt taggcctagg ctttagagtt tcttttggtta aggctttgtg tcttttggtc 240
 taaatttata atacaaggat ctttcttcat ctgttctac gtctctaccc attctcatcc 300
 atttcatggt tacttcttta tttctgaaac ggcagatctg atgacgagtc ccccgagggt 360
 actaatacct gngacctgcc tatcaacttc gagcaagaaa cgaatcacac agaagatgaa 420
 cggaatgagg atgtgagact tccncggaa ttagaaagga tagtcg 466

<210> 33560
 <211> 375
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33560

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 tgttggtgta tcacatccat tcgggtccta agagggtcag atttcaatgc caaaaagggt 120
 ctatgcacgt atgcattacc agtcgtggga agatcctggt aacaaaaaac acctaaacaa 180
 ttacatggtg ttcatcatt tactcaaata accaagtggc aaagttttaa ataacagttc 240
 gcaacagcga tttcagcctc aacatcaagg ttttggtc atgtaagcaa tttcccgcaa 300
 tgtcaaggat cgcgacgaaa ccgcaatcta aaatcttgcc atgtgggtta tgctttaaac 360
 tanatctaca aaaat 375

<210> 33561
 <211> 477
 <212> DNA
 <213> Glycine max

<400> 33561

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aggattctag gcttgcagaa gtgtcactgc ctccgcaaac cagtaccctc cctcttcagt 120
tcacacaacc ctgtaataaa gatgagtatt gtttctcttg cttacctgca aattacatca 180
aaacagcatt aaagaagaac aataataaca acactgaaaa acatgtgaag ttcgctgaag 240
ttatcattca tgtcatgcca ttatttgagc aattaaaaca aataagcttt aatcagctag 300
acaagaaatt atgtgcgtgt gtgtgtatta ttagaccaa ttcctattat cctatagtat 360
taactattaa atgacaacaa acatcttgga gccacataaa tattctatat tctacaataa 420
tgattgatca tttgtcttga cttagtgcac atgaatatct ggtcaatgca gctaattg 477

<210> 33562

<211> 443

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33562

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aaacagggca gaggcagaaa actctgccca aaacacattc aaataccaca gctntcccta 120
ctcaaatacc ccagtaacat tctctntggt ctgattcggt aaccattgga tcgacttgaa 180
aantttacta gaggttcccta gtacataagt ctacatcttg accgttgga tctactagaa 240
aatgtccaga acccaatatg tactaccttt ccataacca acaatgcaca agcattntct 300
gcacatggtg aaaagttctg ctgcacaatt caacaacatt cttctgcata atanggcaga 360
attcgaaatc catcttgccc acatccaatt ntgctcanat nggatcctac aagtcctaca 420
tcattgtataa atcatatata aat 443

<210> 33563

<211> 425

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33563

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cgacccgtac tetaagaccg atacacacaa cgccttaca acggcacacg agcggaatcc 240
 cgaactagga acaatgaatc ccactcataa caccatcaa cgcacgggta cacaaattgc 300
 gataatatgg cctacgggga acacanacaa cgcacggctc acacacaaag acgacatcgc 360
 aatngaccgc gagagccaca aacgaacacc tagccaccaa tcacagaccc cgctcctaga 420
 cacaacagac tccgacg 437

<210> 33569
 <211> 519
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33569

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 caccngaag accatncata ctatgtcatc agccacttc agctttgctc gataacacag 120
 ccacagatag gggctcgct agagcacacg atactgctgc caatcaaacc accaactgaa 180
 cacctacacc tcgcaccaca tctccctacc atgccagtgc gcagcacgct aggttgggac 240
 atcctaacag ccataccatg aagctacacc tcacacattg caatatttcc tcaactcaata 300
 aaactttatc agactctagc tctgcccgt gcattggcata atctcatata ttgccctccc 360
 actctcctac ttctatatac cttccttcgg agccatctt acagacctgc ggcgaccgct 420
 catgacctcc catgctaccc taactactac gcacctcta cgatgcctca tcagaacact 480
 cgatattcct atacaccaac gccaaactccc gctccaacc 519

<210> 33570
 <211> 444
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33570

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 acccaact ccaacaaaga caacaacaca caaaaggctc ctctactga cctattgaaa 180
 cttggctatg catcaactcac ccttgagcct ccttttcgct ccttgatata acagatcaca 240

gaagaagacg gtcaccctcc actntgcata atatctgaca tggtccttgg ttgggttaac 300
aatgttgcaa agagcttaag cactangaac ctaaccttca ccacttgtgg tgcttatggt 360
atcttggcct atatctctat ctgggtcccaa cctcctcata ggaaaactga ttctgatgag 420
ttccatgttc cggaattcc tcaa 444

<210> 33571
<211> 425
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 33571

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cctatatcca cagagaagag attgctctta aatccgcgca acatcctctg tggaggctct 120
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atcttcaaca gctgtctcac atcaattaga gccagcttgc catcacttga tgcggaaaca 240
agccatggaa actcataggc aagagaatac acaacagctg agtgaggaac agaattagta 300
aataagctgg ttttctatat ttacgagta agtcagtttt aatggattag catagtcaat 360
aagtgtttc tatctttaag gaacaagta gccttaatac tctgctttgc taatatctct 420
gtatc 425

<210> 33572
<211> 375
<212> DNA
<213> Glycine max
<223> unsure at all n locations
<400> 33572

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ttattgtcaa tgcggaaggt attctgcgct tcactatcca tggtcacata ttattgcagc 180
ttgtggttac gtgagcctga actactacca atatataaat gttgtttata caaatgagca 240
catcttacia gcttactccc cacaatggtg gcctcttgag aatgaagtgg ctattcctcc 300
ttctaagat gcatggacac ttatccctga cccaactaca attcgtgcga caggctgtcc 360

<210> 33573
 <211> 458
 <212> DNA
 <213> Glycine max

<400> 33573

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 gctctccctc gagatattaa gcaaaaaaaaa gacaacacca tggttcacca atgcttcaac 180
 aaccctaaat tgtgtaaaga gaagtgccag cagtggcaac aatttatcaa tttatagctc 240
 caaaatttcc aattgtgttt gtctgaatta agagctgaca ttgagaaaat agcctcagtt 300
 gcattgatat ttgcctatat ttatttctat ccacctcttt ttaacaaatg tttccatcag 360
 tattataacg ccgcttatcc attgattcat cgaagttcaa gtatatccaa tgcattaata 420
 atttggaac tatattagtg aattatacag aataccac 458

<210> 33574
 <211> 348
 <212> DNA
 <213> Glycine max

<400> 33574

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 aatcaaaaga tgtaactctt caaaagggtt ttgaattttt caaattgggt ttaagttttt 120
 ctaaaagtta taactcttct aaatgggtctt cttgaccaga catgaagagt ctatataagc 180
 aagggttttt tttgcatctc aagtatcttg aatacttttc caatcaattc tttgcaagcc 240
 ttgaatctct ttgaacttct tcttcttcat tgtacaaaaa gctttctgaa gttttctggt 300
 tttccaaacc ttgaaaactt gtgctattca tctttccatt ctcttctg 348

<210> 33575
 <211> 422
 <212> DNA
 <213> Glycine max

<400> 33575

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 gcaccaatga aaggaaaata caagaaatta tagaatgtac tcattttgtt cccgtactaa 180
 aatgagaat caacctctaa gagtacagtg tgtacaatta gaaggactga gtacaatact 240
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 cacctectac ctctaaatac cactattagt tggttacata atccaccaac ctagagttag 360
 gggtttctctc tctcacactc tttctgttac catagtggat acgtgagatt tgcaaatatt 420
 cc 422

<210> 33576
 <211> 382
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33576

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 tcctttatgg ctgttgatcc atttaaatatt tgttccgtgc tttcccctgg acgacgttnt 360
 cgagtagaga aatgatgcat tt 382

<210> 33577
 <211> 385
 <212> DNA
 <213> Glycine max
 <400> 33577

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ctggcagttt gcttttgtac taccc 385

<210> 33578
<211> 320
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33578

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gcacaaacca acaacaccaa ccaagaaagt gaattttgca gcgagaaagc ttgagaattc 240
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ctagccaggt catcacctca 320

<210> 33579
<211> 455
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33579

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cgaggcgctt ccgtaacact tccgaaacgt ttccgtgaag attttccgcc gtctttcggt 180
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aatgaaatcc gactgttcgg tcatgccgta ccacg 455

<210> 33580
 <211> 413
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33580

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 aaaaatactt tttaacttaa aattcctggc caaacctttt gctacttcaa tnggaattcc 240
 ctccctatctt aatataccct ttctaagact ctaaagactg tcttgatcat ccatcttgaa 300
 tatctnntaa ttctttgtct tgaataaagc ttgagacgc atgtgatcct ttggcatcat 360
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<210> 33581
 <211> 463
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33581

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 gtcgaggaac cttggggggt tatggctacc attgaattat ggagtagaca taagagcaag 180
 gtagcatagg acacaaaaat tgggggagaat tctataaaact tttttgctgg aaaactcctt 240
 ccttggttgg tgttttggtt tgtgctaaaa gtggtgtttg gcattgggtg tgtggcacgc 300
 aagctttgtg gctgatttag tgatggcctt cgtggatgat tgngtgggtg gtaatgaaaa 360
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<210> 33582
 <211> 442
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations

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094105

<210>	33583
<211>	421
<212>	DNA
<213>	Glycine max

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tatggctagg	agcttttagaa	tccttgagac	ttaccatggg	attataaccc	ctgctattac	180
caaagttgga	gtttttataa	aaaattacta	tttaagatat	atgaaacttt	ttttaactta	240
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gcttctttca	ctgctagtag	cagtaacagg	atagctctgg	aattaaacgt	gatcaatgag	360
catgtattac	aatatcaaaa	tctaattgagc	aacataaggt	gatgagcgta	cgctagctaa	420
						421

<210>	33584
<211>	396
<212>	DNA
<213>	Glycine max

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<223>      unsure at all n locations
<400>      33584
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 ctcttaattct ccatttagct atatttcttg attntntttt agtaggatag gataagtata 300
 ggtgaataat ttttaaaaaat atttaacatg attacatatt taatatttga atcataaaca 360
 attgttaaat taaaacaatc tcacgtcaca tgcttc 396

<210> 33585
 <211> 473
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33585

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 tacaaaacta agttgaatcc tagaggagaa gtaacaaagt tcatagccag actgggttga 180
 aagggatttc tgcagaagca aggtctggat tatgatgaag tatttgcccc tgttgctang 240
 ttggaaacag ttagacttgt aatagcaatg gctagctaca attgctggga agtacaccaa 300
 atggatgtaa aatctgcatt tcttaatggc tcactagaag aagaagttnt tgtcactcaa 360
 ccaccagggt ttgtgatgaa aggtagagaa acagagggtg acaagctgca taaggccttg 420
 tatggtctga aacaggcttc cagagcttgg aacaagagaa tagatacctt tct 473

<210> 33586
 <211> 450
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33586

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 cgaaataata ttgatgtcca ggtattggta aaatttaaaa atcaatatgt gtaaagagaa 180
 atacgtgtga tttgtgngt gtagtggttaa tcttttgagt atctataaaa gaggggtggac 240
 tagaaatgga agatacaaat ttcactctac atctttaatt gacctttcac attanaatgg 300

tgattctgac gtgacacttc tatagaccgt tgagaatgta cttatggaaa tgtgataaat 360
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 tattactaat tgatcatgtc caatcaaagt 450

<210> 33587
 <211> 473
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33587

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 gccgatagat tgaccttcac ctgttcctgc acgccctctt cattatccat tnttctggat 240
 cgagtgttat agggatgcct tgggtgtttc ttagttatga tgaaattcct aaagaaataa 300
 acaaaggatga gtatgccacc aaaacatgaa tatgcaaagt aatgatcgga gcacttggat 360
 ccaccccaag ggtttttaga taacgtgatg agttcagaaa ttctcatnt atacaaagac 420
 caatgctttc atctagccac agatatacaa aggggtgtaca agagaaccta acg 473

<210> 33588
 <211> 216
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33588

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 ccttgccgnc gcactgaata taaactccca tactgtctgc tataccaagt actaccggtg 180
 agctcggact ccaactgtca ttccacggac taaacg 216

<210> 33589
 <211> 411
 <212> DNA
 <213> Glycine max

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 gaagctctga gcaaattcaa acgacaatag cttttgactc ggatatccga ttgagtcatt 240
 taataattcg agacgctcan aattgaatac agaagctcta agcanattca aatgacaata 300
 actnttgact cgaatgtccg attgagtcatt tntataattc gagacgctca anattgaatg 360
 caggagctct caccannatt aaatgacaat aactntntac tcagaagtct aatgggtgtcc 420
 tgtaatntat cta 433

<210> 33592
 <211> 441
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33592

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 cgtgcgtctc gatatactac aggactcaat cggactttcc agcaaaaagt tattgtcatt 180
 tgaatttggt gagagcttct atattcaatt tcgagcgtct tgaattatta agggagtaaa 240
 ttcgacatcc gagtcaaaat tttttattgt ttcaatttgc tgagagctgg tgtattcaat 300
 ttcgagcgtc tcgaattatt aaatggttca atcggtatgc anagtcaaaa gctattgtcg 360
 tttgaatttg cttagagctt ctgttttcaa ttctgagcgt ctcgatatat taccggactc 420
 aatcagacat ccgagtataa a 441

<210> 33593
 <211> 391
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33593

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 gtcaaaatat gtgcagcagg attntagctt ggtgcagaaa atgcttgtgt gtgggtggct 180

<210> 33596
 <211> 456
 <212> DNA
 <213> Glycine max

<400> 33596

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 tggettccagc aggagtcatg tctccaaggg ctccaccact ggcagcatct atcatacttc 180
 tctccatatt gctgagtcct tcataaaaat attggagaag aagctgctct gaaatctgat 240
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 cactaagttg tctaatacct gagatatact tctgatggc tgtggctctg gaagcaggga 360
 aaattgtttc taagaatact ctcttaaggt catcccagct cgtgatggac cttggagcaa 420
 ggtaatacaa ccagtccttt gccactcctt ctaatg 456

<210> 33597
 <211> 418
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33597

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 aacgaataaa agaggggagag aagctgaact ttgaagtgtg tctcataaga ctttcattca 120
 tcaaagtgc aacaagtgtt acacatgctt ctatttatag actaggtagc cttcttgaga 180
 tgctttctta agaaaacttc cttgagaagc ctctttgaga aaactttctt gagaagctag 240
 agcttagcta cacacacca ttcaanaact aagctcacct ccttgagaag ctatcttgag 300
 aagctagagc ttagctacac acacccatct aataactaag ctacactcct taagaagcta 360
 gagctcagct acacacactc atctaaaaac taagctcacc tnccttgacga aatacatg 418

<210> 33598
 <211> 431
 <212> DNA
 <213> Glycine max

<400> 33598

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gagacaaaag ctggtgcaaa tcaaaactcc gatattcat ggggtggaatg gatgaatgca 120
tgaaggaatg catataacac agatgcaatc taggaatgcg ggggtccggg gaattcgtcc 180
ccttcttaga cacaacgtct aggggtagca aagtgcccc aactacgttt ttaagaaggc 240
gacacggacc ctccgttggt ttgtttacac aagggatcaa gacagaacct atatgcatg 300
cctatgcaaa agacacaatg cgggaatgta cacagtatga caatattcac tgaacataag 360
caaaagggtat tatgatactt atgcatggca gtgtgaaaaa tggcatgcac cgtgtttgct 420
cgtgcccccta t 431

<210> 33599

<211> 407

<212> DNA

<213> Glycine max

<400> 33599

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ctttcttgaa cttgcaaacc aacaatctaa gtggttccat accaacatcc attgacaact 180
tgaaatttct ctttgaactc caactcaggg aaaacaaact aagtgggtgtg ataccaagca 240
tgccgggggag tttgcaggtg tcaactgaatc ttagtagcaa ccactttagt ggtaatactc 300
ccaacaattt tggtaatgtg gatagcctgc aagtcttga tctctcaaat aacaaatttc 360
ctggtccaat tccaaccaa ctaactggaa tgtcagctct gacatag 407

<210> 33600

<211> 449

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33600

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cgtgggaagt atggtttaag ctataagccc actcaggcgg atatgaagag aagcaccgcg 180

ggaaggaaaa gcagtggcca aagctcgag ttgagacaag aaagtgaagg aagccccccc 240
 tgccacataa gcagaagctt tataagcgca ggtttgggag acgaagggtca agtgggtcgcg 300
 atatacgaag atgatgttcc gagtacattg gatttgggtac gaaccatgcc ctctgatttc 360
 cagctgggaa aatggcgagt ggaggaacac cccggcattt acgcaacgag cataatgtaa 420
 acctttacgg ttntaaaagc tctatagtt 449

<210> 33601
 <211> 412
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33601

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 ttacaaaata aaagaactca aataatagac gtctaataa ttaaaaaaat atataatctc 180
 ataaaaataat cttatgtata attacataac ataaaatagt aaaatagtaa aatagtaaaa 240
 tagatgagac tcaacttctt ataatgctct ttattttcag caatgaagct aataattatt 300
 cgaaagatac attgcttggt ttgcagctat acttatgctg aataataaat agacgacgta 360
 cctcttagca agtcatctag gcgtacttct tgacatatca tnccatgaat at 412

<210> 33602
 <211> 370
 <212> DNA
 <213> Glycine max

<400> 33602

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 tgggcgtatt ctttgaaaga ttcgtgctcc tttttgcaca cattctatag ctgcattcta 180
 tccggaacca tatcagaatt gtactgatat tgccaaacga aggcaaccat tacgtccttc 240
 caagaatgaa ctggggaagg ttccaagtta gtataaccagg tgacaactgt cccagtaaga 300
 ctttctgga agacatgcat caataatttt tgatctttcg catatgctcc cattttccta 360

370

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<223>      unsure at all n locations
<400>      33603
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<210>	33604
<211>	405
<212>	DNA
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aagacacttt tccatgatct gaccgttggg atctttgaga agatgtctgg agtgtgctat	180
aagcctctta atgaagcttc tggaggaagc ctcttaatga agcttctaca gaaagctaca	240
tgaagctgcc ttggtaaaaa cgctgccag ccttcgttaa ccattggatc ttctccacat	300
ctgggtctgca acttcacaag acaatcttcc atgatcttaa cattgggatc tttgagaaga	360
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<223> unsure at all n locations

<400> 33605

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 gctcacctcc ttgagaagct tccttaagaa gattcctaaa gaagctagag cttagctaca 180
 catacctctc taatagataa gctcaccttc gtgagatgag aagctagagc ttacctacac 240
 accnctata atagctaagt tcaccncat gacaaaatac atgaaaatac anaaaanaat 300
 ccctactaca aagactactc anaatgcctc gaaatacaag gctaanacc tatactacta 360
 gaatgggcaa aatacaaggc ccaaacgaag gaaaacctat tcaatattac caagataagc 420
 gagctctact tagccatg 438

<210> 33606

<211> 475

<212> DNA

<213> Glycine max

<223> unsure at all n locations

<400> 33606

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 atttacctgn gtcaacttta tcagagaaaa atcagacacc tttgaagtat tcaaagagtt 180
 gagtctaaga cttcaaagag aaaaagactg tgatcatcaag agaattacga gtgatcatgg 240
 cagagagttt gaaaacagca agtttactga attctgcaca tctgaaggca tcatcatga 300
 gttctctgca gccattacac cacaacaaaa tggcatagtt ganaggaaca acaggactct 360
 gcaagacgct gctanggtca tgcttcatgc caaagaactt ccctataatc tctgggctga 420
 agccatgaac acagcatgct acatccacaa cagagtcaca cttagaagag ggact 475

<210> 33607

<211> 441

<212> DNA

<213> Glycine max

<400> 33607

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tatcanagtg ttattcccaa catctagaaa gctctcaaga acaaagtaat cgattagatt 360
 cttgatgtaa tcgattaaag tgttcttgat cactnttggg aacactnnta agaacaaagt 420
 aatcgattag gatcacctgg taatc 445

<210> 33610
 <211> 446
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33610

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 aattttctcaa gtgcaaacac aattgtcagt aattctttct caatgggtggc atagttaatt 300
 tgagcatcat tcaaaactct gctagcgtaa tagatgcgat gaaacattct gctcttctgc 360
 tgccccagca cagcacctac tgcataatca gttgcatcac acatcaattc aaactcttgt 420
 cgctagtctg gtgctgtaatt cacaag 446

<210> 33611
 <211> 289
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33611

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 actctgcccc tgtctgcgtg tctgattatt atgaacacaa cttcagatgt ttatctgctt 180
 ctgggggtttt tatgtgcatg agtgctcgct cctaccaaat atccagagcc tcgactttct 240
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<210> 33612
 <211> 465

<212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33612

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 tatgtaacga ctgcgccctt ctacatgttc attagaaaac tgatataacc aaaaacttta 240
 ttttacctca tgtacaactc tccacatcaa ttcatttatg aacacacata tgacattttc 300
 acatttaaca aaccatcatc taaaacctca caacttcaac gtaatgcac tatacactaa 360
 tatcaactga atagagccat gtattctggg cactacaaca tgttatcata agatacaaca 420
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<210> 33613
 <211> 373
 <212> DNA
 <213> Glycine max

<400> 33613

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 gaacttcccc tatcatagac tgggagaaag cacatagaaa acaaccgaaa tgtccagtca 180
 agaatggcaa aagtcaaaag gaataagata acgaaaaaag ctctgacaag gatcaatgat 240
 aacagaaaaa tgtcataagg tcttgaccga catatctgaa caatcaaag cacctatgac 300
 aaaagaagaa ggcccacacc taaaggcttt ccttgatata acaaaccgg cgctacactt 360
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<210> 33614
 <211> 578
 <212> DNA
 <213> Glycine max

<223> unsure at all n locations
 <400> 33614

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 taaaatggtg acatatttac gga 443

<210> 33619
 <211> 431
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33619

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 taagactntc ttggaataaa tgtatcaata gtctctcctc ttttgtgtat gctcccatct 360
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 ctggcacatt g 431

<210> 33620
 <211> 458
 <212> DNA
 <213> Glycine max
 <223> unsure at all n locations
 <400> 33620

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 aataatatat agatatatat atcaaggtgt tacagtcccc ggacgaaatt agggatgac 240
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 ttgtgtataa aaattgtata aattatatca acctctccca atctatgcgt attttgtagt 420

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458

<210> 33621
<211> 329
<212> DNA
<213> Glycine max

<400> 33621

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tcatactcag ccatagtatt cgtgcaatc 329

<210> 33622
<211> 444
<212> DNA
<213> Glycine max

<400> 33622

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acattcacct tgatcctttg tctacaatct ccgcctgtgc gatgatgaca atacttgaaa 420
taagacaagc tatatacaat atga 444

<210> 33623
<211> 253
<212> DNA
<213> Glycine max

<223> unsure at all n locations
<400> 33623